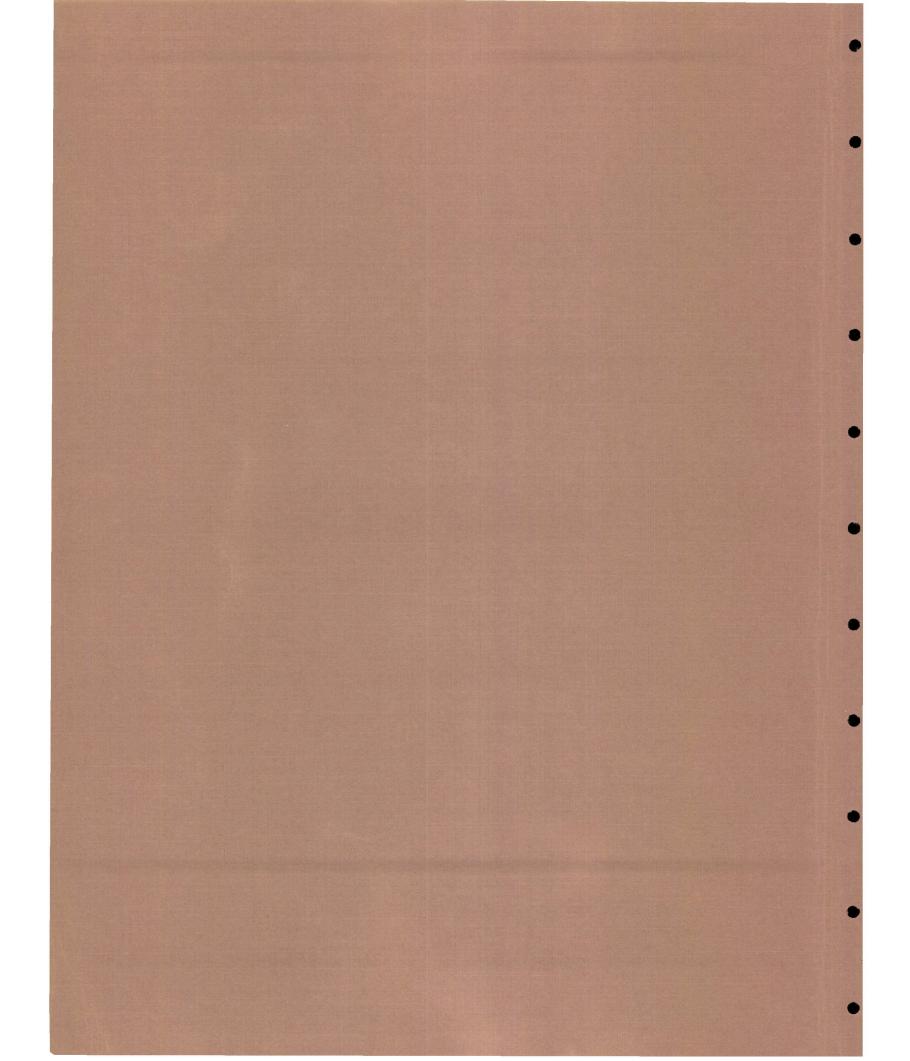
Actornocz REVEGETATION TEST PLOT RESULTS Submitted To: Chervon Resources Manila Star Route Vernal, Utah 84078 Submitted By: NPI 417 Wakara Way University Research Park Salt Lake City, Utah 84108 December 1983



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DIVISION OF \
OIL, GAS & MINING

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#### INTRODUCTION

Study plots were established during May, 1982 at the Chevron Vernal Phosphate Operation approximately 12 miles north of Vernal, Utah. These plots were established in a former juniper vegetation type with an annual precipitation rate of approximately 10-11 inches. The objectives of the study plots were to answer important questions regarding revegetation at the site. These objectives were:

- Identify the potential of alternate growth media. Since topsoil is limited, the potential benefit of alternate growth media was evaluated.
- 2. Evaluate the effectiveness of drill seeding and broadcast seeding in establishing vegetation. Since shrub seed is often trashy and the seed can be extremely small, it was important to evaluate whether this seed could be effectively established using Chevron's rangeland drill or whether separate broadcast seeding of shrubs would be beneficial.
- 3. Identify species suitable in the area to the different growth media. It is important to determine suitable species and varieties for the site specific conditions encountered in order to properly meet post-mining land use objectives.
- 4. Identify the potential of using containerized shrub and tree species. Since many shrub and tree species are difficult to establish from seed, particularly under harsh conditions, it was important to investigate an alternative method of establishment.
- 5. Evaluate the effectiveness of water harvesting techniques. This was thought to be critical with some growth media since the water

holding capacity of the growth media was limited.

6. Evaluate the effectiveness of fertilizer on vegetation establishment and plant survival. Since all growth media were low in fertility, this treatment was included.

This report is the second evaluation performed on these test plots and represents data collected two growing seasons following test plot establishment. For information evaluating vegetation establishment one growing season following test plot establishment and for details on the establishment of the test plots, refer to <a href="Study Plot Establishment and">Study Plot Establishment and</a> Results, Native Plants, Inc., December 1982.

### **METHODS**

The following is a brief review of the treatments used on the test plots.

- Growth media. Six different growth media were evaluated for their influence on vegetation establishment. These included topsoil, subsoil (Mackentire formation or "red beds"), overburden, tailings/topsoil mix (1:1 ratio), tailings subsoil mix (1:1 ratio) and a tailings/overburden mix (1:1 ratio).
- Containerized outplants. Containerized, 10-month old tubelings of five species were planted with a rooting volume of 13 cu. in. Plants were evenly spaced on 3-ft. centers (Table 1).
- Catchment basins. Containerized outplants were planted in basins approximately 2 ft. in diameter and six inches deep or were flat planted (level with the soil surface).
- Seeding. Two seed mixes were applied, a shrubland mix and a grassland mix (Tables 2,3). The grassland mix was drill seeded at a rate of 15.1 lbs/acre, PLS. The shrubland mix was: (1) broadcast seeded at a rate of 36.6 lbs, PLS and covered using a chain-link material pulled by a pick-up truck; and (2) drill seeded at a rate of 10 lbs/acre, PLS. Because of their limited size, plots using tailings sand were only drill seeded with the grassland mix.

<sup>&</sup>lt;sup>1</sup>PLS denotes Pure Live Seed. Non-germinable seed, other seeds, and trash are discounted or removed from a seed lot.

Table 1. Shrub and tree species established from containerized outplantings.

SCIENCITIC Manie	Sci	enti	fic	Name
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Artemisia frigida

Artemisia nova

Cercocarpus montanus

Juniperus scopulorum

Rosa woodsii

# Common Name

fringed sage

black sage

mountain mahogany

Rocky Mtn. juniper

woods rose

Table 2. Shrubland Seed Mix

Species	Drill Seed Relative lbs/acre	Broadcast Seed lbs/acre
Agropyron inerme 'Whitmar'	1.0	3.6
Ceratoides lanata	1.0	3.6
Cercocarpus montanus	1.0	3.6
Artemisia tridentata	0.1	0.4
Kochia prostrata	0.5	1.8
Atriplex canescens	1.4	5.2
Chrysothamnus nauseosus	0.3	1.0
<u>Purshia</u> <u>tridentata</u>	1.4	5.2
Oryzopsis hymenoides 'Nezpar'	1.6	5.8
<u>Linum lewisii</u>	0.5	2.0
Sphaeralcea munroana	0.2	0.8
Astragalus cicer 'Monarch'	1.0	3.6
Total	10.0	36.6

Table 3. Grassland Seed Mix

<u>Species</u>		lbs/acre Drill Seeded
Agropyron intermedium 'Amur'		1.5
Agropyron dasystachyum 'Critan	ıa'	1.5
Agropyron smithii 'Rosanna'		1.5
Agropyron inerme 'Whitmar'		3.0
Agropyron trichophorum 'Luna'		1.5
Elymus cinereus 'Magnar'		2.3
Oryzopsis hymenoides 'Nezpar'		2.3
Melilotus officinalis		0.3
Medicago sativa 'Ladak'		1.2
	Total	15.1

• Fertilizer. Approximately half of the containerized plants and half of the seeded areas were fertilized. The remainder were not fertilized. Containerized plants were fertilized using one Agriform tablet (21 g slow release, 20-N:10-P:5-K). Seeded areas were fertilized with 50 lbs available N/acre of prilled ammonium nitrate.

Basins, plantings, seedings, and fertilizer application were randomly assigned within each plot. Holes for containerized plants were drilled with a portable gasoline auger. The root portion was placed in the hole and soil medium placed about the root until about 1/2 of the rooting portion was covered. A fertilizer tablet was placed in the hole and the root portion was completely covered such that the top of the tubeling growth medium was slightly lower than flush with the soil surface. Soil was firmly tamped around the plant throughout the planting process.

All plants were watered in with approximately 3 qts of water/plant. Plants in basins were watered in once and plants that were flat planted were watered in twice to compensate for water loss via overland flow. Subplots were lightly sprayed prior to seeding, immediately following seeding, and the following day. (Plots were sprayed lightly one week following seeding.) This was an attempt to partially compensate for seeding so late in the spring.

A portion of each overburden plot was used to study the influence of water harvesting techniques. On the lower overburden plot terraces were establish using a D-9 bulldozer. The upper overburden plot was terraced in a 'patchwork' scheme to simulate dozer basins.

Seeding success and transplant survival were monitored at the end of the second growing season during September 1983. Vegetation cover and plant densities were estimated using a 0.5  $\rm m^2$  quadrat. Four quadrats were

randomly placed in each subplot. On areas consisting of dozer basins and terraces located on overburden substrate, two of the four quadrats were placed in the basins or terraces and two were placed between the basins or terraces. Sampling skipped areas where rilling, due to overland flow from around the test plot area, destroyed portions of a subplot. At each quadrat, measures of cover and density were recorded. Cover was estimated visually utilizing a technique described by Daubenmire (1968) modified to provide greater precision. Cover was divided into four categories: % total cover; % litter; % rock; and % bareground. Living cover was further subdivided into lifeform categories (tree, shrub, forb, annual forb, grass, and annual grass).

Plant survival of containerized plants was determined by recording whether each individual that was planted was alive or dead. Missing individuals were recorded as being dead. The vertical height of each live individual was recorded to the nearest centimeter. The highest point of the individual was the point to where height was measured except for black sage (Artemisia nova) where seed stalks were ignored and only the height of the largest vegetative branch was recorded. This was felt to provide a more reliable estimate of height since seed stalk lengths would probably vary more from year to year. Fringed sagebrush was recorded in a similar manner in 1982 but was changed to the height of the entire plant including seed stalks in 1983. This was because of the suffrutescent nature of fringed sagebrush and the fact seed heads and vegetative growth often occur on the same stalk. Because of this change, no attempt has been made to analyze changes in the height of fringed sagebrush between 1982 and 1983.

Daubenmire, R.F. 1968. Plant communities: A textbook of Plant Synecology. Harper and Row Publishers. New York. 300 p.

The data from all these techniques were summarized for each subplot and this summary information was placed on computer magnetic storage media. Computer generated printouts of this data have been included in the appendix. Species names for seeded species were abbreviated using the U.S. Forest Service alpha code system. The symbol for each species consisted of the first two letters of the generic name plus the first two letters of the species name. If necessary, the third letter of the species name was added to make the code unique for each species. Individual quadrat data is kept as hard copies in NPI project files. Statistical analyses performed consisted of analysis of variance. Significance levels were set at P < .05.

### **RESULTS AND DISCUSSION**

### Shrubland Seed Mix

The cover of perennial and annual species was significantly affected by the growth medium (P < .05) (Table 4). Perennial vegetation cover on topsoil plots averaged 9.7%, overburden averaged 5.2% and subsoil (Mackentire formation) averaged 2.0%. The higher cover on the topsoil plots is expected due to the greater water holding and nutrient supplying characteristics of this growth medium. Although the cover on the topsoil plots is less than the cover that is reported to occur on undisturbed vegetation types in the area/(18-26%) (see Reclamation Plan, Native Plants, Inc. 1982), this cover will increase, particularly as the shrubs develop. Previous reclamation efforts at the mine site indicate that the Mackentire formation is a superior growth media to the typical overburden. Results from these cover data alone may tend to contradict this. However, other data cited later show that seedling densities are high although the seedling individuals are still quite small. Establishment of cover from the more aggressive species in the grassland mix has been favorable. Establishment of the shrubland mix on the Mackentire formation, although initially slow, should greatly improve. The vegetation cover of the overburden material was extremely variable.

Annual vegetation cover was greatest on the Mackentire formation (22.3%) followed by the overburden material (12.3%) and topsoil (7.3%) and was inversely proportionate to the perennial cover on these soils. The annual cover on the Mackentire formation should decrease substantially in the future as perennial species become better established. The abundant annual cover on the Mackentire formation suggest a greater potential for perennial

Vegetation establishment using the shrubland seed mix, two growing seasons following seeding. Table 4.

щ	2.0	1.2		
ပြ	3.2	3.7		
اد ا	1.0	1.2	•	
S	8.9	8.9		
ଧ	3.8	6.7		
띡	1.5	8.1		
<u>ତା</u>	6.7	4.0		
SI.	0.5	0.2 1		
) S	28.7	18.4		
있	3.0	1.8		
i	7	п		
	7 3.			
<u>ය</u>	8			
SI.	1.	1.8		
AC.	6.7	4.5		
PC1	9.5	13.0		
Broadcast Seeded	Fertilized	Non-Fertilized		Drill Seeded
	PC1 AC S G F PC AC S G F	- PC <sup>1</sup> AC S G F PC AC S G F 9.2 6.7 1.4 8.7 3.7 3.0 28.7 0.5 6.7 1.5	PC <sup>1</sup> AC S G 9.2 6.7 1.4 8.7 ed 13.0 4.5 1.8 10.5	- PC <sup>1</sup> AC S G F PC AC S G F 9.2 6.7 1.4 8.7 3.7 3.0 28.7 0.5 6.7 1.5 ed 13.0 4.5 1.8 10.5 6.1 1.8 18.4 0.2 10.4 8.1

<sup>1</sup>PC = perennial cover (%), AC = annual cover(%), S = shrub density (individual/m  $^2$ ), G = grass density (individual/m<sup>2</sup>), F = forb density (individual/m<sup>2</sup>)

21.6 0.0

0.2

1.7 26.1 0.0 3.8 0.6

10.1

8.4

Non-Fertilized

Fertilized

16.1

vegetation establishment than that which has been exhibited to date with the shrubland mix. Fertilization significantly increased annual cover ( $P \le 0.05$ ). The annual species that dominated in this study included summer cypress (Kochia scoparia), russian thistle (Salsola kali), and halogeton (Halogeton glomeratus). These annual species appeared to make better use of the nitrogen than the perennial species. Delaying fertilization until after seedling emergence as recommended in the Reclamation Plan, should help minimize this problem and provide a more consistent benefit to perennial species. To help quantify the benefits of this approach, it is recommended that randomly selected subplots within each of the test plots be fertilized early this spring. The fall 1984 monitoring will then include a final analysis of this technique.

Shrub establishment using the shrubland mix was significantly affected by the seeding method ( $P \le .01$ ). Seedling establishment was 15x greater with broadcast seeding than with drill seeding. The broadcast seeding rate was 3.7x higher than the drill seeding rate. A higher broadcast seeding rate is usually recommended because lower establishment typically results if broadcast seeding and drill seeding rates are equal. Even taking into account the higher seeding rate of broadcast seeding, shrub seed had better establishment with broadcast seeding. The main reason for this was probably the result of poor seed dispersion using the rangeland drill. The rangeland drill became intermittantly clogged with winterfat seed, particularly in the dispensing tubes. Since there was a wide discrepancy in seed size, seed could not accurately be metered for each species. The rangeland drill can be adapted for fluffy seed by using "seed pickers" which pull seed into the dispensing tubes and using a wider diameter (2 inches) dispensing tube. Some of the reason for poor establishment of shrub seed was small seeded

species being seeded too deep. This can be adjusted by shortening the attachment chains or obtaining furrow openings with shallower depth bands. Broadcast seeding appears to be a better alternative for the establishment of shrubs, particularly without the above adjustments. This could be accomplished by using a fertilizer spreader to broadcast fluffy or trashrused. Broadcast seed should then be harrowed by dragging a chain to cover the seed.

Criteria for evaluating the success of seeded stands on foothill ranges in the Intermountain Region receiving 11-13 inches of precipitation is contained in Valentine (1971) $^1$ . Using this criteria for the density of all seeded species, seedling establishment by broadcast seeding on topsoil (16.1 plants/m $^2$ ) and the Mackentire formation (13.7 plants/m $^2$ ) would be rated excellent while seedling establishment on the overburden substrate (6.2 seedlings/m $^2$ ) would be rated fair. Seedling establishment through drill seeding the shrubland mix ranged from poor to fair.

Shrub species with the highest densities as a result of direct seeding were winterfat (Ceratoides lanata) and fourwing saltbush (Atriplex canescens). A few bitterbrush (Purshia tridentata) seedlings were noted which were not present a year ago. This species has a hard seed coat and can take a while to break dormancy. No mountain mahogany (Cercocarpus montanus) or big sagebrush (Artemisia tridentata) seedlings were noted. The highest density of seeded forbs were Lewis blue flax (Linum lewisii) and cicer milkvetch (Astragalus cicer).

J.F. Vallentine. 1971. Range Development and Improvements. Brigham Young University Press. Provo, Utah. pp. 278-279.

## Grassland Mix

The cover of perennial species established with the grassland mix was also significantly affected by the growth medium ( $P \le .01$ ) (Table 5). Perennial vegetation cover on topsoil plots averaged 17.7%, followed by the tailings-topsoil plot (14.6%), Mackentire subsoil plots (9.2%), tailings-subsoil plots (8.3%), overburden plots (6.3%), and the tailings-overburden plots (4.0%). These cover values are higher than cover values achieved using the shrubland mix. This is not surprising since the shrubs and the forbs seeded in the shrubland mix are slower to establish. Also, drill seeding grasses often result in higher cover and productivity than with broadcast seeding during initial years following establishment, albeit species diversity may be less. The cover on the topsoil plots is beginning to approach the levels that have been reported to occur on undisturbed vegetation types in the area (18%-26%).

Annual vegetation cover, although not statistically significant because the high variation present, had a trend of increased annual cover on fertilized plots. This trend was similar to that which occurred with the shrubland mix.

Grass and forb densities were also significantly affected by the growth media. Topsoil plots were highest in plant density and overburden plots were lowest. Similar criteria as used previously to evaluate seeding success based on the density of seeded species results in the following ratings: topsoil (25.2 plants/m<sup>2</sup>)-excellent, tailings-topsoil (19.1 plants/m<sup>2</sup>)-excellent, tailings-overburden (13.3 plants/m<sup>2</sup>)-excellent, Mackentire subsoil (12.4 plants/m<sup>2</sup>)-excellent, tailings-subsoil (11.4 plants/m<sup>2</sup>)-excellent, and overburden (7.4 plants/m<sup>2</sup>)-good. Although the tailings-overburden had fairly high densities, these consisted of extremely

Seedling establishment using the grassland seed mix, two growing seasons following seeding. Table 5.

Overburden 1.4 19.1 0.7 0.7 11.3 8.1 4.5 8.8	Tailings- <u>Overburden</u> 4.6 1.8 14.9 0.9 3.4 2.5 9.9 0.9
Subsoil 10.7 17.0 10.5 2.5 7.7 7.9 10.1 1.7	Tailings- Subsoil 8.2 9.1 9.4 1.4 8.5 3.0 10.1 1.9
$\frac{\text{PC}^{1}}{\text{Fertilized}} \frac{\frac{\text{Topsoil}}{\text{AC}}}{17.5} \frac{\text{G}}{2.2} \frac{\text{F}}{15.3} \frac{\text{F}}{10.0}$ Non-Fertilized 17.9 0.9 12.6 12.6	Tailings- Topsoil Fertilized 15.0 3.2 10.1 7.5 Non-Fertilized 14.2 1.7 10.4 10.3

lpc = perennial cover (%), AC = annual cover (%), G = grass density (individual/m²), F = forb density (individual/m²)

small seedlings which have high potential for mortality. Generally the grasses and forbs on topsoil plots were quite large and many had produced seed. Additional regeneration of individuals from this seed and from rhizome production should soon be evident.

Forb densities were adversely affected by fertilization (P  $\leq$  .05). These forbs are legumes and are nitrogen fixers. It should be expected that nitrogen fertilization would provide little benefit to their development. Increased annual forb production as a result of the fertilizer may have adversely affected forb establishment. As mentioned earlier, delaying fertilization until after seedling emergence should help increase the benefit of fertilization. In addition, phosphorus fertilizer should be used if an increase in legume development is desired.

The most commonly occurring seeded species included intermediate wheatgrass (<u>Agropyron intermedium</u>), alfalfa (<u>Medicago sativa</u>), and Indian ricegrass (<u>Oryzopsis hymenoides</u>).

Contour trenches and dozer basins which were established on overburden plots had significantly higher grass and forb densities than interspaces between these water harvesting devices. This was not only a result of increased water retention but soil also collected in these depressions thus improving the growth media. Several of the plots had fairly severe erosion from water running onto the plots from above. One problem in the basins that occurred was that excess water and soil was continually burying individuals. Many of the grass and forb individuals would fail to reach maturity.

# Container Plants

Although Table 6 indicates small differences in survival between soils and different treatments, these differences were not statistically

Percent survival of containerized plants, two growing seasons after planting. Table 6.

Fertilized	Topsoil	Subsoil	<u>Overburden</u>	Tailings- Topsoil	Tailings- Subsoil	Tailings- Overburden	
Flat planting	77	78	06	;	1	ł	
Basin planting	73	92	84	70	88	06	
Non-Fertilized							
Flat Planting	98	06	98	1	1 1 1	!	
Basin Planting	81	81	86	06	84	87	

significant since there was quite a bit of variation between plots. There are several reasons for the lack of any significant differences.

Precipitation has been above average for the past two years, thus minimizing any benefit from water harvesting (i.e., basins) and from soils with better water holding capacity (i.e., topsoil). Container plants have a greater root biomass and energy reserve than small seedlings established from seed. Therefore, factors affecting seedlings will not necessarily affect transplants in a similar method. A large portion of the initial mortality of transplants was due to burial, particularly of mountain mahogany in basins and on soils that were more susceptible to erosion such as the topsoil and subsoil plots (see Plot Establishment and Results, Native Plants, Inc., December 1982). Current survival rates are probably a holdover from mortality expressed during the initial growing season. Any long-term differences in survival among the different growth media is still overshadowed by results during the initial growing season.

Using a rating based on excellent survival >75%, good survival >50%, fair survival >25%, and poor survival >25%, then survival on all growth media would be rated as excellent. Table 7 contains the average survival of each species used in the test plots. The survival of all species, except mountain mahogany, would be rated as excellent (86%-96% survival). Mountain mahogany would be rated as low good (53% survival). Mountain mahogany does not usually outplant well. It has a slow developing root system and because of its short stature, was suceptible to burial during the first growing season. It should be noted that no mountain mahogany individuals were established from seed. This species appears to be the most difficult to establish of the species investigated on the test plots to date. Most fringed sage (Artemisia frigida) individuals have already been flowering and

Percent survival of containerized plants, by species, two growing seasons after planting. Table 7.

		5				6
Artemisia frigida	Topsoil 96	Subsoil 94	Overburden 95	Tailings- Topsoil 96	Tailings- Subsoil 100	Tailings- Overburden 96
Artemisia nova	88	98	94	83	79	88
Cercocarpus montanus	40	53	89	46	54	28
Juniperus scopulorum	26	88	6	88	100	100
Rosa woodsii	72	92	86	88	92	100

producing seed and several black sagebrush have also been flowering.

Monitoring the natural reproduction of shrubs and trees that will be reestablished through transplanting will be extremely beneficial in determining the initial stocking rate required for optimum cost effective establishment of these individuals.

Table 8 contains heights of each species and changes in heights from 1982 data. These data can be used as a simple growth index although there are other factors beside height which indicate growth. Fringed sagebrush height was measured differently in 1982 (see methods section of this report) and a comparison with 1983 data was not meaningful. From this data it appears that black sagebrush had the largest increase in height. Negative height changes are possible from browsing and the mortality of large individuals which are no longer counted. Woods rose (Rosa woodsii) and mountain mahogany were the most susceptible to browsing. Although not statistically significant because of the high degree of variation, trends in plant height indicated greater growth on topsoil and subsoil plots and least growth on overburden and tailings-overburden plots.

Although there was a great deal of variation, trends in plant height indicated greater growth for fertilized black sagebrush, mountain mahogany and woods rose individuals than for nonfertilized individuals. However, fertilization had a negative impact on plant survival the first year following planting (see <a href="Study Plot Establishment and Results">Study Plot Establishment and Results</a>, Native Plants, Inc., December 1982). There appears to be a tradeoff in the benefit of fertilization.

Heights and growth of container plants after two growing seasons. Values are in centimeters. Table 8.

							Tailin	ds-	Tailin	-sbi	Tailir	-sbi
	Topso	j],	Subsoi	, ,	Overbu	rden	Topsoi	·—	Subsoi	) —	Overbu	ırden
Artemisia frigida <sup>2</sup>	$\frac{\text{Ht}}{40.0}$		Ht. 43.1	$\frac{\text{Ht.}}{43.1} \frac{\triangle 1}{}$	$\frac{\text{Ht.}}{37.2}$ $\frac{\Delta I}{}$	10	$\frac{\text{Ht.}}{43.3}$	17	Ht. 37.5	Ht. AI 37.5	$\frac{Ht.}{36.6}$	$\frac{\Lambda}{\Lambda}$
Artemisia nova	18.8 8.1	8.1	17.1	10.6	16.1	7.1	17.4	0.6	19.4	13.9	17.2	8.4
Cereocarpus montanus	7.3 3.0	3.0	8.5	3.3	7.3	1.0	7.7	2.6	6.4	-4.7	7.9	1.5
Juniperus scopulorum	16.9 3.4	3.4	13.0	3,3	13.4	1.9	14.8	3.0	14.2	1.9	15.8	2.0
Rosa woodsii	16.7 6.6	9.9	15.7	5.9	20.1	2.8	18.8	6.2	14.8	4.9	15.5	-0.5
	4											

 $^{1}_{\Delta}$  = change in heights between 1982 and 1983

<sup>&</sup>lt;sup>2</sup> Artemisia frigida heights were measured differently in 1982 and 1983 and are not comparable.

#### **SUMMARY**

After two growing season, perennial vegetation establishment from seed remains greatly affected by the growth medium. Topsoil is superior in vegetative establishment, particularly in perennial vegetation cover. The addition of tailings material to the other growth media generally provided little harm or benefit to the primary growth media. Topsoil added to tailings materials generally is more beneficial than subsoil (Mackentire formation) or typical overburden.

Shrub establishment from seed was more successful from broadcast seeding rather than being seeded with a rangeland drill, particularly one not equipped to handle trashy seed. Clogging of the drill resulted in poor seed distribution and establishment. Wintefat and fourwing saltbush had the highest density for shrubs that were established from seed. Most of the gasses and legumes that were seeded were effectively established.

Overall transplant establishment remains excellent with the exception of mountain mahogany which was rated as low-good. This species will be one of the more difficult to establish of those tested. Long-term factors influencing survival are still mingled with initial mortality from the burial from sediment so that differences in survival between soil types, water harvesting and fertilizer are not clear cut.

Nitrogen fertilization did not appear to provide a benefit to establishment from seed. Fertilization increased annual cover and decreased legume establishment. Slow-release fertilization did not have a significant affect on the survival of transplants by the second growing season. This fertilization appeared to have an adverse impact the first year following transplanting. Trends indicate that fertilization has increased the growth

of transplanted shrub species. From these results it appears that fertilization should be delayed until after the emergence or establishment of seeded species. It is recommended that fertilizer be applied early this spring to selected subplots so that enhancements in growth and composition of seeded species following establishment can be monitored.

These results reflect the second growing season. In arid regions, a significant portion of the mortality that will occur begins the first year following planting and continues until the third or fourth year at which time it begins to level off. Seeding mortality is less predictable, especially for forbs and shrubs, but generally several years are required before a fair assessment of survival can be made. Competition, particularly from weedy annuals, fluctuates greatly from year to year. Monitoring of these plots is recommended for one more year. At this time, all previous monitoring efforts can be analyzed and trends can be identified. In addition, costs of each treatment can be analyzed to determine the cost/benefit of each treatment and final adjustments to the reclamation plan can be made.

COVER

SOIL		SEED MIX	SEED Method	FERT	WATER HARVEST		BARE GROUND X	ROCK %		VEGETATION %			ANN. GRASS %	PER. GRASS %	ANN. FORB	PER. FORB %
•							v =		•							
LOWER	TOPSOIL	GRASS	DRILL	N	N	1	78.0	8.0	2.8	12.0	0.0	0.9	0.2	7.3	0.2	4.3
LOWER	TOPSOIL	GRASS	DRILL	N	N	2	71.4	8.3	4.0	16.3	0.0	0.0		6.1		9.6
	TOPSOIL	GRASS	DRILL	N	N	3	70.9	7.5	2.8	18.8	0.0	0.0	0.1	5.8	1.2	11.7
	TOPSO1L	GRASS	DRILL	N		4	72.9	8.3	3.3	15.5	0.0	0.0	0.1	6.7	1.7	7.0
_	TOPSOIL	GRASS	DRILL	N	N	5	67.4	6.3	3.3		0.0	0.0		11.2	0.3	11.0
UPPER	TOPSOIL	GRASS	DRILL	N	N	6	65.9	4.8	1.8	27 <b>.5</b>	0.0	0.0	0.1	8.2	0.7	18.5
	TOTAL	S FOR	N												. <b></b> -	
							426.5	43.2	17.2	113.1	0.8	0.0	1.0	45.3	4.7	62.1
	AVERAGE	FOR	N										. <b></b> -			
	Standard						71.1	7.2	2.9	18.9	0.0	0.0	0.2	7.6	0.8	10.4
<u> </u>	STANDARD	DEV. N														
							3.9	1.3	0.8	5.1	0.0	0.0	0.2	1.8	0.5	4.4
												.33				
	TOPSOIL	GRASS	DRILL	Y	N	1	74.6	10.8	1.3	13.3	0.0	0.0		7.1	0.5	5.7
_	TOPSOIL	GRASS	DRILL	Υ	N	2	79.2	5.5	0.5	15.8		0.0	0.3		3.3	3.6
	TOPSOIL	GRASS	DRILL	Y	N		65.0	9.0	4.0			0.0	0.3	8.3		11.5
	TOPSOIL	GRASS	DRILL	Y	N		69.5	6.8	1.5			0.0	0.0	4.5		13.2
		GRASS GRASS	DRILL	Y Y	N N	5	67.2	4.3	4.5			0.0	0.0	10.0		13.2
UFFER	1015011	UMHOO	DRILL	I	N	0	74.4	3.3	1.8	20.5	0.0	0.0	0.3	9.4	0.9	9.9
	TOTAL	S FOR	Y													
•			•				429.9	38.9	13.6	118.6	0.0	0.0	8.9	47.9	12.7	57.1
	AVERAGE	FOR	γ		,-											
							71.7	6.5	2.3	19.8	0.0	0.0	0.2	8.0	2.1	9.5
-,	Standard	DEV. Y	' <b></b> -			·	<b>-</b>		<i></i> -	. <b></b> .						
							4.9	2.6	1.5	3.9	0.0	0.0	0.2	1.8	1.7	3.7
	TOTAL	S FOR	DRILL													
	AVERAGE	F00	001: :				856.4	82.1	30.8	231.7	0.0	0.0	1.9	93.2	17.4	119.2
	AVERAGE	ruk	DKILL							10.0						
	Standard	מ טפּול	PIII				71.4	6.8	2.6	19.3	U.U	U.U 	0.2	7.8	1.4	9.9
	OHERDING	DE4. 0	WILL				4 4	21	1 2	4.6	0 0	חת	0.0	10	1 4	41
	T.O TAL	S FOR	GRASS											1.0	1.7	7.1
•										231.7	0.0	0.0	1.9	93.2	17.4	119.2
	AVERAGE	FOR	GRASS													
							71.4	6.8	2.6	19.3	0.0	0.0	0.2	7.8	1.4	9.9
	Standard	DEV. G	irass							· <b></b> - ·						
				_			4.4	2.1	1.2	4.6	0.0	0.0	0.2	1.8	1.4	4.1
•			·													
LOWER	TOPSO1L	SHRUB	BROADCAST	N	N ·	1	77.4	5.0	1 3	16.3	0.0	3 3	0.0	5.1	5 2	2.6
	TOPSOIL		BROADCAST		N N	2	70.5	11.0		14.0	0.0		0.0	5.2	0.9	
	TOPSOIL		BROADCAST		N	3	74.7	10.8	1.5		0.0	0.4		2.3	4.0	
			BROADCAST			4	64.4	7.9	1.3		0.0	4,4		9.9	8.5	
		SHRUB			N	5	72.5	10.0	1.5			5.4		3.2	0.6	0.8
			BRCADÇAST		N	5	50.2	17.5	4.6					5,8		
			, -			-					~.,			- , -		- • :

COVER

Soil	SEED MIX	SEED Method		Water Harvest		BARE Ground %			ÆGETATION %				PER. GRASS X		PER. FORB %
• T B T A L						419.7	61.3	14.1	184.9	0.0	17.3	8.4	38.5	26.5	38.2
AVERAGE		N				70 A	10.2	2.4	17.5	0.0	2.9	0.1	5.1	4.4	5.8
Standard						5.9			4.7	0.0	1.7	0.1	2.1	2.7	2.6
•															
LOWER TOPSOIL	SHRUB	BROADCAST	Υ	N	1		11.3		14.5				6.5		3.4
LOWER TOPSOIL	SHRUB	BROADCAST	Υ	N	2		21.5		13.3	0.0		0.0		2.7	3.1
LOWER TOPSOIL	SHRUB	BROADCAST		N	3		12.5		14.5	0.0					4.7
UPPER TOPSOIL	SHRUB	BROADCAST		N	4		9.8		19.0	0.0		0.0 0.1		12.6 5.8	
	SHRUB	BROADCAST		N N	5	72.7	6.8 7.8		19.0 15.5				0.9		
UPPER TOPSOIL	SHRUB	BROADCAST		••	C	75.2		1.3	10.5	0.0	1.0	0.2	•••	0.0	***
TOTAL						425.4	69.7	9.1	95.8	0.0	4.2	0.3	28.4	40.0	22.9
AVERAGE						70 D	44 /	1.5	16.0	0.0	0.7	0.1	4.7	6.7	3.8
STANDARD						3.9	4.8	0.4	2.2	0.0	0.6	0.1	2.1	3.3	1.9
TOTAL	S FOR	BROADCAST			. <b></b> .	845.1							<b></b> -		. <b></b> -
AVERAGE						70.4	 10.9	1.9							
STANDARD						5.0	4.4	1.1			. <b></b> -	. <b></b>			
LOWER TOPSOIL	SHRIIR	08111	N	N		75.0	7.5	1.0	16.5	0.0	0.0	0.0	7.4	3.5	5.6
LOWER TOPSOIL	SHRUB	DRILL	N	N	2	79.0	7.0	1.5	12.5	0.0	0.0	0.0	3.8	1.8	
LOWER TOPSOIL	SHRUB SHRUB	DRILL	N	N	3	79.0 72.4	7.3	2.0	18.3	0.0	0.0	0.3		9.1	
UPPER TOPSOIL		DRILL		N	4	68.2	10.3	4.0					2.7		
UPPER TOPSOIL	SHRUB	DRILL	N	N	5	77.4	6.3	0.8	15.5	0.0	) 0.0		2.2		
UPPER TOPSOIL									18.8		) U.I	J U.2	3.1	13.2	2.3
TOTAL	S FOR	N		. <b></b> .		444.4	 45.7	10.8	99.1	 0.0	 0 0.0	 3 0.9	25.1	 48.6	24.5
AVERAGE	FOR	N			<b></b> .	74.1	 7 A	1.8	16.5	 0.1	 0 0.1	 ) 0.2	4.2	 8.1	4.1
STANDARD	DEV.	N				. /7:1	 								
						3,6	1.3	1.1	2.1 	0.1	. U.		1.9	4.1	1.0
LOWER TOPSOIL			Y			76.4									1.3
LOWER TOPSOIL			Ϋ́		2	78.4							5.0		
LOWER TOPSOIL		DRILL	Ÿ		3	74.6				0.			1.4		
	SHRUB	DRILL	Ϋ́		4	67.2				0.				10.8	
UPPER TOPSCIL	SHRUE	DRILL	Ÿ		5	69.2	6.0		23.3	0.	0 0.			12.5	
UPPER TOPEDIL	SHPUS	DRILL	Y		é	54.4	9.8		24.8	8.	0.	9 0.	<b>5</b> .0	13.2	5.3

# COVER

SOIL	SEED MIX	SEED METHOO		Water Harvest		Bare Ground %			VEGETATION %			<b>GRASS</b>	PER. GRASS %	FORB	FORB
•TOTAL	S FOR	Y					. <b></b> .		, 				. <b></b> .	. <b></b>	
AVERAGE						430.2			111.2						24.7
						71.7	8.0	1.7	18.5	0.0	0.3	0.3	4.0	9.8	4.1
STANDARD	DEV.	Y							4.8			0.4	17	2 2	20
TOTAL	S FOR	DRILL													
AVERAGE	FOR	DRIII				874.6 	93.9 	21.2	210.3	0.0	1.7	2.7	49.1 	107.6 	49.2
Standard						72.9		1.8	17.5	0.0	0.1	0.2	4.1	9.8	4.1
STANDARD	DEV.	OKILL'				4.5	1.2	1.1	3.8	0.0	0.3	0.3	1.8	3.8	1.8
TOTAL	S FOR	SHRUB				·			411.0		 22 2	 3 A		174 1	102 2
AVERAGE	FOR	SHRUB						. <b></b> -							
Standard	NEU.	SHRIB				71.7	9.4	1.8	17.1	0.0	1.0	0.1	4.5	7.3	4.3
									3.8		1.5	0.3	2.0	3.9	2.1
<u> </u>															
						×7/ 1	207.0	75 2	142 7	Λ Λ	22.3	5 2	201 2	191.5	221.5
•			. <b></b> .		REP	ORT	AVI	R		<del>-</del>					
			. <b></b> -		REPORT	/1.6   STANDAR	8.5 DEVIA	2.1 TION	17.9 	ט.ט 	U.6		J.6	J.J	0.2
						4.8	3.4	1.2	4.2	0.0	1.3	0.2	2.5		

SOIL		M	EED IIX	SEED METH		taw Ti Haru		PS					JW.			ANN.	PER.	ANN.	PER.	
•	AGINE	ORHY	ASC	I LILE	SPMU	ARTR	ATCA	CELA	CENO	CHNA	KOPR	PUTR	GRASS	TREE	SHRUB	<b>GRASS</b>	GRASS	FORB	FORB	TOTAL
LOWER TO				BROADC				1												
SEEDED UNSEED! TOTAL		13.5	0.	0 3.0	0.0	0.0	1.8	1.0	0.8	0.0	9.0	0.0	0.0	0.0 0.0	2.0 0.0 2.0	0.0 0.0		21.5 21.5	3.0 2.5 5.5	
LOWER TO				BROADC				2						7.7		0.0		21.0	0.0	77.10
SEEDED UNSEED! TOTAL	ED			D 2.5			0. <b>0</b>	2.0	0.0	9.8	0.5	0.8	8.8	9.8 9.0	2.5 0.9 2.5	0.0 0.0		6.5 6.5	4.0 5.0 9.0	19.5 15.8 34.5
LOWER TO				BROADC				3												
SEEDED UNSEED! TOTAL	ED			0 3.0		0.0	0.5	V.5	0.0	8.9	0.0	0.0	0.0	0.0	1.0 0.0 1.0	0.0	4.0 1.5 5.5	4.5 4.5	3.5 7.0 10.5	8.5 13.0 21.5
UPPER TO				BROADC				4												
seeded Unseedi Total	ED			5 5.0		0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0 0.0 1.0		9.5 2.0 11.5		5.5 2.0 7.5	16.0 18.5 34.5
UPPER TO				BROADC				5												
SEEDED UNSFFRI TOTAL	FN			0 9.5					0.0	.0.0	0.0	0.0	0.0	0.0 0.0	1.5 0.0 1.5		14.0 1.0 15.0		9.5 0.0 9.5	25.0 16.0 41.0
UPPER TO				BROADC 0 11.0				6		0.0			0.0		2.0	٧.	6.0		11 0	20.0
• UNSEED!		0.5	, 6.	U 11.U	0.0	0.0	1.0	1.5	V.U	0.0	V.3	v. <b>u</b>	0.0	0.0 0.0	3.0 0.0 3.0	0.0	4.0 10.0	14.0		22.0
	- T O T A	LS	FOR 1	N																
SEEDED	22.0	20 5		E 24 D	2.0	0.0	4 5										/0 E		0/ F	111 0
<ul> <li>UNSEEDI</li> <li>TOTAL</li> </ul>	ED			5 34.0	2.0	0.0	4.3	5.5	v.v	8.0	1.0	U.U	U.U	0.0	11.0 0.0 11.0		63.5 13.0 76.5		20.5	
	- AVERAG	E FO	IR !	<b>V</b>																
SEEDED UNSEEDI TOTAL		5.1	0.:	1 5.7	0.3	0.0	0.8	0.9	0.0	0.0	0.2	0.0	0.8			0.1			3.4	18.5 18.3
•	- STANDAR	D DE	V. N			. <b></b> -		. <b></b> -					. <b></b> .	υ.υ 	1.8	U.) 	12.8	12.6	y.5	36.8
SEEDED UNSEED! TOTAL		4.1	0.1	2 3.4	0.6	0 <b>.0</b>	8.4	0.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	4.5 1.2 4.3		2.2	
•															· ·					
LOWER TOP											•									
SEEDED UNSEEDE TOTAL		1.5	0.5	5 0.5	0.0	0.0	0.5	1,5	0.0	0.0	0.0	0.0	0.0	0.0		0.0	9.5 7.0 16.5	14.5	1.5	23.0
_ LOWER TOP														2.5		4,4				0010
SEEDED UNSEEDI TOTAL		4.5	0.6	0 1.0	0.0	0.0	9.5	1.5	0.0	0.0	0.0	0.0	0.0		2.0 0.0 2.0	0.0	10.0 4.5 14.5	8.5		13.0 17.0 30.0

SOIL	AGINE	MI		SEED METH LILE		T WATI	EST		COMO	CHAIA	voon	Berro	JW.	TAFF	CHOHO	ANN.	PER.	ANN.	PER.	
							niun	VELM	CEN	LINE	NUTR	ruik	CCMOO	IREE	SHKUB	DIM-133	UNHSS	FUKB	FUKB	TOTAL
LOWER TOP SEEDED UNSEEDE TOTAL UPPER TOP	2.5 D	5.5	0.0	BROADCA 2.0	0.0	0.0	0.0		0.0	8.8	9.0	0.8	0.0	0.0 8.0	0.0	0.0	3.5		2.0	19.8 21.0 31.0
SEEDED UNSEEBE TOTAL	3.5 D	7.0	1.5	2.5	0.0	0.0	0.5	8.0	8.8	8.8	8.8	8.8	0.6		0.0	0.0	1.0	5.0 5.0		15.0 6.0 21.0
UPPER TOP SEEDED UNSEEDE TOTAL	11.5	9.0	RUB 0.5	BROADCA 9.5	ST Y 0.0	0.0	0.5	5 1.5	0.0	0.5	0.0	9.8	0.0		2.5 0.0	1.5	11.5 0.5		10.0 0.5	24.0 10.0
UPPER TOP SEEDED UNSEEDE TOTAL	0.5			BROADCA 4.0				1.0	0.0	0.0	0.0	0.0	0.0		1.5 0.0	0.5	3.0 0.5	14.0 14.0	4.5 1.0	9.0 16.0
SEEDED UNSEEDEL TOTAL	31.5	21.0	3.0	19.5									0.0	3.0	8.5 0.0	2.0	17.0	65.0 65.0	9.0	93.0
SEEDED UNSEEDER TOTAL	)			3.3		0.0	0.4	0.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3	2.8	10.8 10.8	1.5	
SEEDED UNSEEDED TOTAL	3.6	2.4	0.5	3.0	0.0									0.0	0.0	0.6		4.0 4.0	3.1 1.3 2.5	4.9 5.9 5.0
SEEDED UNSEEDED TOTAL	64.5	51.5	3.5	53.5	2.0									0.0	19.5 0.0	2.5	30.0	140.5 140.5	29.5	202.5
SEEDED UNSEEDED TOTAL	5.4	4.3	0.3	4.5	0.2	0.0	0.6	0.9	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	2.5	11.7 11.7	4.9 2.5 7.4	16.9
SEEDED UNSEEDED TOTAL	3.5			3.4		0.0	0.3	0.7	0.0	0.1	0.2	0.0	0.0	0.0	0.8	0.4	3.9 1.9	5.0	3.3 2.1 3.5	5.6 5.3 7.7

	SOIL	AGINE	HI	X	SEED METH LILE		t wat Harv Artr	EST		CENA	CIMA	MUDD	DIFFE	JUV. Grass			ANN.		ANN.		TOTAL
_								🛶 ,	<b>J</b>	<b>7010</b>	01041		IUIN	UM 100	INCE	SINUE	UMAGG	UMPIO	FURD	FORB	TOTAL
	LOWER TOPS SEEDED UNSEEDED TOTAL	3.0			DRILL 1.5	0.0	0.0		9.0	0.0	0.0	0.0	0.0	0.0	0. <b>0</b>	0.0 0.0	0.0		9.0	1.5	5.5 23.5
•	LOWER TOPS SEEDED UNSEEDED TOTAL	2.5			DRILL 4.5	N 0.0	0.0		2 0.8	0.0	9.0	8.0	0.0	0.0	0.0	0.0	0.0	13.5 3.5 4.5 8.0	9.0 5.0 5.0	5.0 3.5 8.5	29.0 8.5 13.0 21.5
	LOWER TOPS SEEDED UNSEEDED TOTAL	3.0	SH 1.5		DRILL 0.0	0.0			3 0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	1.0	4.5	5.0 5.0	0.0	4.5 17.0 21.5
•	UPPER TOPS SEEDED UNSEEDED TOTAL	0.5	2.5	0.0	ORILL 4.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0	0.5 0.5	3.0 1.0 4.0	8.0 8.0	4.5	7.5 10.0 17.5
•	UPPER TOPS SEEDED UNSEEDED TOTAL	8.0		0.5	1.5		0.0	0.0	5 0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0 0.0 0.0	0.5 0.5	2.5 2.5 5.0	8.5 8.5	2.0 1.5 3.5	4.5 13.0 17.5
•	UPPER TOPS SEEDED UNSEEDED TOTAL	0.5			DRILL 0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.5 0.5		20.5 20.5	0.0 1.0 1.0	0.5 24.5 25.0
		TOTA	L S F	OR N								<b></b> .		<b>-</b>							
	SEEDED UNSEEDED TOTAL	9.5 AVERAGE			11.5	0.5	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0 0.0 0.0	2.5	18.0 28.0 46.0		13.0 14.5 27.5	101.0
•		HVERHUE	אטר	N								• •									
	SEEDED UNSEEDED TOTAL			0.2			0.0	0.0	0.0	8.0	- 0.0	0.0	0.0	0.0	0.0			3.0 4.7 7.7	9.3	2.2 2.4 4.6	5.2 16.3 22.0
_		STANDARD	DEV.	. N ·												<b></b> -					
	SEEDED UNSEEDED TOTAL	1.3	0.9	0.2	1.8	0.2	0. <b>0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0 0.0		1.3 3.1 4.1		2.8 1.6 2.4	2.6 5.5 4.1
_	: ALER 7450	<b></b> .	•							_				- <b></b>				<b></b>			
	LOWER TOPSO SEEDED UNSEEDED TOTAL	2.0	SHR 0.0	UB ( 0.5	ORILL 0.5	9 0.0	N 0.0	0.0		0.0	0.0	3.0	0.0	0.0	0.0	0.0 0.0 0.0		2.0 10.5 12.5	7.0 7.0	1.0 1.0 2.0	3.0 18.5 21.5
•	LOWER TOPSO SEEDED UNSEEDED TOTAL	0.5	SHR 0.5	UB 0 0.0	PRILL 1.0	1.5	N 0.0	0.0		9.0	0.0	0.0	0.0	9.0	0.0	0.0	1.0	1.0 6.5 7.5	6.0	2.5	3.5 14.5 18.0

	1																		
SOIL	t	SEED MIX Y ASC	SEED METH I LILE		rt wat Harv Artr	EST		CE10	CHNA	KOPR	PUTR	JUV. Grass	TREE	SHRUB	ANN. GRASS	PER. GRASS	ANN. FORB		TOTAL
LOWER TOPSOIL SEEDED 0.5 UNSEEDED TOTAL UPPER TOPSOIL	1.5	ā 0.	0 0.5	0.0	0.0	0.0	3 0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0 0.0			14.5 14.5	0.5	2.5 18.6
SEEDED 0.8 UNSEEDED TOTAL UPPER TOPSOIL	1.0	0.6	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.5 0.0 0.5	1.0 1.0	1.0 1.0 2.0	4.5 4.5	0.0 2.5 2.5	9.
SEEDED 0.5 Unseeded Total	1.0	0.0	0.0	0.5	0.0	0.0	5 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0 0.0	1.5 1.5	1.5 1.5 3.0		0.5 1.5 2.0	
UPPER TOPSOIL SEEDED 0.5 UNSEEDED TOTAL	1.5	HRUB 0.0	DRILL 3.0	9.0	0.0	0.0	6 0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5 0.0 0.5	1.0	2.0	42.0	3.0	5.5
SEEDED 4.0 UNSEEDED TOTAL AVERAGE	5.5	0.5	5.0	2.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.9	0.0	1.0 0.0 1.0	4.5	24.0	81.5 81.5	8.5	118.5
SEEDED 0.7 UNSEEDED TOTAL STANDAR			0.8	0.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0			4.0	13.6 13.6		
	0.5	0.2	1.0 RILL					0.0	0.0	0.0	0.0	0.0	0.0	0.2 0.0 0.2	0.6	0.4 3.4 3.5		1.1 0.5 0.8	1.3 12.4 13.6
SEEDED 13.5 UNSEEDED TOTAL AVERAGE	14.0	1.5	16.5	2.5	0.0	0.0	1.0						0.0	0.0	7.0	52.0 1	37.5	23.0	219.5
SEEDED 1.1 UNSEEDED TOTAL STANDARD	1.2	0.1	1.4	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	8.6	2.3 4.3		1.9	18.3
SEEDED 1.1 UNSEEDED TOTAL	0.8	0.2	1.5	0.4	0.0	0.0	0.2	0.0	0.0	0 <b>.0</b>	0.0	0.0	0.0	0.2 0.0	9.5	3.3	10.2	1.3	9.7

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TOPSOIL

	SOIL		SE NI		EED Eth	FER	T WAT HARV	er re Est	PS					JW.			ANN.	PER.	ANN.	PER.	
		AGINE	ORHY	ASCI	LILE	SPMU	ARTR	ATCA	CELA	CENO	CHNA	KOPR	PUTR	SRASS	TREE	SHRUB	GRASS	GRASS	FORB	FORB	TOTAL
								·	6 R A	N D	TOT	ALS									
•	SEEDED UNSEEDED TOTAL	78.0	65.5	5.0	70.9	4.5	0.0	7.8						<u>.</u>	9.8	20.5 0.9 20.5	9.5	82.0	278.0	52.5	243.5 422.0 665.5
												VER.									
	SEEDED UNSEEDED TOTAL	3.3	2.7	0.2	2.9	0.2	0.0							8.0	0.0 0.0		0.4	3.4	11.6 11.6	2.2	
									KEPUKI	SIANU	AKU DE	DITAIN	<del> -</del>								
	SEEDED UNSEEDED TOTAL	3.4	3.0	0.4	3.1	0.4	0.0	0.4	0.6	8.0	0.1	0.1	0.0	0.0	0.0	1.0 0.0 1.0	0.5 0.5		8.0 8.0	3.1 1.7 3.4	7.4 7.8 10.4

## TOPSOIL

SOIL		SEED MIX	SEED METH AGDA		t wate Harve Agine	ST	eps Agtri	ELCI	ORHY	NESA	NEOF	JAV. Grass	TREE	SHRUB		PER. GRASS	ANN. FORB	PER. Forb	TOTAL
LOWER	TOPSOIL	GRASS SEEDED UNSEEDED TOTAL	DRILL 2.5	5.5			1 1.5	6.0	0.6	18.5	5.8	9,0	0.0 0.0	9.0 0.0	8.5 8.5	11.8 4.5 15.5		15.5 9.0 15.5	26.5 7.5 34.8
	TOPSOIL	GRASS SEEDED UNSEEDED TOTAL	4.0		3.0		2 2.0	0.0	9.5	9.8	8.5	1.0	9.0		0.0	18.0 0.5 18.5	1.0	17.5 0.0 17.5	35.5 1.5 37.0
	TOPSOIL	GRASS SEEDED UNSEEDED TOTAL GRASS	4.5	5.5		4.0	3 0.5	0.0	0.0	9.8	6.0	9.6	8. <b>0</b>	0.0		15.0 3.5 18.5		15.0 0.0 15.0	30.6 6.0 36.0
•	TOPSOIL	SEEDED UNSEEDED TOTAL GRASS	1.5	5.0	0.0 N	1.0	<b>0.</b> 0	0.0	0.5	3.0	3.5	9.8	0.0 6.0	0.0	0.0 0.0	8.0 1.0 9.0	5.0 5.0	6.5 0.0 6.5	14.5 6.0 20.5
	TOPSOIL	SEEDED UNSEEDED TOTAL GRASS	1.0		3.0	1.5	1.0	0.0	0.0	5.5	2.5	0.0	0.0 0.0		1.0	tudes.	4.5 4.5	8.0 0.0 8.0	20.5 10.0 30.5
•		SEEDED UNSEEDED TOTAL	3.5		2.5		0.1	0.0	0.5	6.5	6.5	0.0	0.0 0.0	0.0		11.1 1.5 12.6		13.0 0.5 13.5	24.1 6.5 30.6
•	TOTA	SEEDED UNSEEDED TOTAL	17.0		10.0	10.0	5.1	0.0	1.5	43.5	32.0	9.0						0.5	151.1 37.5 188.6
•	Averagi Standari	SEEDED UNSEEDED TOTAL		5.3	1.7	1.7	0.9	0.0	0.3	7.3	5.3						3.2	0.1	25.2 6.3 31.4
•	31HNUHRI	SEEDED UNSEEDED TOTAL			1.2	1.2	0.7	0.0	0.3	2.5	2.0	0.0	0.0					0.2	6.7 2.5 5.5
LOWER	TOPSOIL	GRASS SEEDED UNSEEDED TOTAL						0.8	0.5	4.5	4.0	0.0			0.0		3.5	1.5	24.5 7.5 32.0
LOWER	TOPSOIL	GRASS SEEDED UNSEEDED TOTAL						0.0	1.5	3.5	1.0	0.0	0.0	0.0	0.5	17.5	4.5	4.5 0.0	22.0 8.0 30.0

SOIL •		SEED MIX	SEED METH ASDA		t wati Harvi Agine	EST	eps Agtri	ELCI	ORHY	MESA	HEOF			SHRUB	ann. Grass	PER. GRASS	ANN. FORB	PER. FORB	TOTAL
	TOPSOIL		5.0	7.8		1.0	4.0		0.5	12.5	4.8	0.0	9.8 1.8	0.8	1.5	19.5 0.0 19.5	6.5	0.0	8.0
	TOPSOIL TOPSOIL	GRASS SEEDED UNSEEDED TOTAL	1.5	4.8	2.8	1.5	1.0	0.0	0.0	4.5	4.5	0.0	0.0	0.0	0.0	10.0 3.5 13.5	8.5	9.0 0.0	19.0
•		GRASS SEEDED UNSEEDED TOTAL GRASS	1.5	8.5	3.0	1.0	0.5	0.0	0.0	4.5	4.0	0.0	0.0		0.0	14.5 3.0 17.5	5.0	0.0	
•			2.5					0.0	0.5	6.0	7.0	0.0	0.0 0.9		1.5	14.5 2.0 16.5	7.5	0.0	11.0
• • •	T 0 T A	SEEDED UNSEEDED TOTAL	18.5		12.5	9.0	6.5	0.0	3.0	35.5	24.5	0.0	0.0	0.0	3.5	92.0 14.0 106.0	35.5	1.5	54.5
		SEEDED UNSEEDED TOTAL ) DEV. Y		7.1	2.1	1.5	1.1	0.0	0.5	5.9	4.1	0.0		0.0	0.6	15.3 2.3 17.7	5.9	0.3	
•		SEEDED UNSEEDED TOTAL		1.7	0.6	0.8	1.4	0.0	0.5	3.0	1.7	0.0	0.0			3.0 1.1 2.3	1.7		5.4 1.7 5.1
•							GRA	N D	т о т	ALS									
•		SEEDED UNSEEDED TOTAL	35.5	74.5			11.6 REP								6.0	167.6 29.5 197.1	54.5		92.0
•		SEEDED UNSEEDED TOTAL	3.0	6.2	1.9	1.6	1.0	0.0	0.4	6.6	4.7	0.0	0.0	0.0	0.5	14.0 2.5 16.4	4.5		7.7
		SEEDED UNSEEDED TOTAL	1.3	1.6			REPORT 1.1							0.0		3.4 1.4 3.2	2.1	4.1 0.4 4.1	6.1 2.6 5.5
•								- <b></b>											

	MATER HARVEST	FERT REP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A T %! L 0 S!	ARNO ! A T % ! L O S ! I T U ! V A R ! E L V !	A T %!	A T %!	A T %! L O S! I T U!	TOTAL A T % L O S I T U V A R E L V
LOWER TOPSOIL	BASIN			3 3 100.0		2 3 66.7			11 15 73.3
LOWER TOPSOIL	BASIN			3 3 100.0	17.0 2 3 66.7 13.5		15.7 3 3 100.0 14.0	17.8 0 3 0.0 0.0	9 15 60.0
LOWER TOPSOIL	BASIN			3 3 100.0	3 3 100.0 16.7	3 3 100.0	3 3 100.0 19.7		15 15 100.0
UPPER TOPSOIL	BASIN	NO F 4		3 3 100.0	3 3 100.0 30.7	2 3 66.7			14 15 93.3
UPPER TOPSOIL	BASIN	NO F 5		2 3 66.7	3 3 100.0 22.0	1 3 33.3	3 3 100.0 26.0		12 15 80.0
UPPER TOPSOIL		NO F 6		3 3 100.0		0 3 0.0		3 3 100.0	12 15 80.0
TOTAL	S FOR	NO F							
		HEIGHT	(DH)	17 18 566.7 246.3	16 18 533.4 125.9	9 18 300.0 32.5	18 18 600.0 120.4	13 18 433.3 95.3	73 90 486.6
AVERAGE				3 3 94.5	3 3 88.9	2 3 50.0	3 3 100.0	2 3 72.2	12 15 81.1
STANDARD	DEV.			0 0 12.4	0 0 15.7 5.9	1 0 31.9	0 0 0.0	1 0 40.5	2 0 13.0
TOWER TOPSOIL					3 3 100.0 16.7			3 3 100.0 16.3	
LOWER TOPSOIL	BASIN	FERT 2		3 3 100.0	3 3 100.0	0 3 0.0	3 3 100.0	2 3 66.7	
LOWER TOPSOIL	BASIN	FERT 3 HEIGHT		3 3 100.0 38.3	3 3 100.0 13.3	1 3 33.3	3 3 100.0 11.3	1 3 33.3	11 15 73.3
OPPER TOPSOIL	BASIN	FERT 4		3 3 100.0	1 3 33.3 28.0	0 3 0.0	2 3 66.7	3 3 100.0	9 15 60.0
UPPER TOPSOIL	BASIN	FERT 5	(DM)	2 3 66.7 43.5	3 3 100.0 18.0	1 3 33.3	3 3 100.0 14.7	3 3 100.0 22.3	
UPPER TOPSOIL	BASIN	FERT 6 HEIGHT	(CM)	2 3 66.7 46.0	3 3 100.0 11.3	0 3 0.0 0.0	3 3 100.0 15.3	2 3 66.7 13.0	10 15 66.7
TOTA	L S FOR			16 18 533.4	16 18 533.3	2 18 66.6	17 18 566.7	14 18 466.7	
AVERAGE	FOR	HEIGHT FERT	(CM)	238.1	106.3	17.0	88.0	112.8	
● · · · · · STANDÁRD		HEIGHT	(CH)	39.7	17.7	2.8	14.7	18.8	
SHEWA				0 0 15.7		0 0 15.7	0 0 12.4	1 0 24.9	1 0 7.1

SOIL		ER FERT REP			! CENO		! ROWO !	TOTAL
	HARV	£51	! A T %	! A T %	! A T %	! A T %	1 A T V I	A 7 W
			LOS	: L 0 S	! L 0 S	!! 0 5	1 1 0 6 1	100
				: 1 1 0	! I T U	! I T U	! 1 T # !	I T U
			: A W K	! V A R	! V A R	! V A R	! V A R !	VAR
			! E L V	! E L V	! E L V	! E L V	! E L V !	ELV
T0	TAISE	NP BACTN						
, ,		ON BH2114	22 2/ 400					
		HETSHT (ON)	33 36 *UU., 1 404 4	32 36 *66.7	11 36 366.6	35 36 ±66.7	27 36 900.0	138 180 919.
AVE	RAGE FOR	BASIN	, 101.1 	232.2	49.5	208.4	208.1	
			3 3 91.3	7 7 7 88 0	1 2 20 5	2 2 22 2	2 3 75.0	
STAN	idard dev.							
			U U 14.4	1 1 7 7 9	1 0 210	0 0 0 0	4 4 44 -	
		HEIGHT (CM)	6.8	5.9	3.7	5.9	1 0 33.7	2 0 11.4
							0.4	<b></b>
I MUED TOPOTI	CI AT		_					
COMER TOLOGIE	FLAI	NUF I	3 3 100.0	2 3 66.7	2 3 66.7	3 3 100.0	0 3 0.0	10 15 66.7
NI MUER TOPONII	ELAT	HEIGHI (CM)	34.7	10.5 3 3 100.0	6.5	11.7	0.0	10 0011
Acomet :01.001F	run)	NU F Z	3 3 100.0	3 3 100.0	1 3 33.3	3 3 100.0	2 3 66.7	12 15 80.0
LOWER TOPSOIL	FI AT	וווטוו (עון)	33./	11.0	3.0	14.0	13.0	
	, 201	HEIGHT (ON)	3 3 100.0	3 3 100.0		3 3 100.0	1 2 50.0	14 15 93.3
UPPER TOPSOIL	FLAT	NO F &	2 2 100 0	19.0 3 4 75.0	5.5	18.0		
						3 3 100.0	3 3 100.0	13 15 86.7
UPPER TOPSOIL	FLAT	NO F 5	2 2 100 0	24.3 3 4 75.0	12.5	17.3	15.3	
		HEIGHT (CM)	40.5	25.7	3 3 100.0	3 3 100.0	3 3 100.0	14 15 93.3
UPPER TOPSOIL	FLAT	NU F 6	3 3 100.0	3 2 100 A	2 2 100 0	21.7		
		HEIGHT (CM)	50.0	18.3	8 0	3 3 100.0	2 3 66.7	14 15 93.3
							17.0	
101	(ALS FO!	R NO F						
		UETOIET COM	16 16 600.0	17 20 516.7	15 19 466.7	18 18 600.0	11 17 383.4	77 90 513.3
AVER	AGE EGD	HEIGH! (CM)	242.6	108.8	41.8	106.7	76.0	
HAEL	HUE FUR	NU F	3 3 400 0	17 20 316,7	·			
								13 15 85.6
STAND	ARD DEV.	NO F		18.1	7.0	17.8	2 3 63.9 12.7	
)				0 0 14.2				
		HEIGHT (CM)	5.7	5.8	1 0 24.9	0 0 0.0	1 0 33.9	1 0 9,7
					2.7	4,2	5.9 	
LOWER TOPSOIL	FLAT	FERT 1	3 3 100.0	2 3 66.7	0 2 0.0	2 3 44 7	2 4 75 0	10 15 // 7
		11510111 10117	32.1	17.5	i ii	1/5	13.0	10 15 66.7
CHER TOPSOIL		FERT 2	3 3 100.0	3 3 100.0	1 3 33 3		2 3 66.7	12 15 00 n
OHER TOROGH		ոգյարի (ՄԱ)	36.U	10.7	5.0	14.0	17.0	12 13 60.0
OWER TOPSOIL	FLAT	FERT 3			1 3 33.3	3 3 100.0		13 15 86.7
	FLAT	HEIGHT (CM)		13.3	10.0	12.3	20.0	19 10 0011
IDDED TOSCATI	<b>≻}</b> ⇔ :	FERT 4	3 3 100.0	2 3 66.7	1 3 33.3		2 3 66.7	11 15 73.3
PPER TOPSOIL		ひとものいき えんい	38.7	29.0	8.0	19.3	22.5	
		HEIGHT (CM)						
		FERT 5	3 3 100.0		9 3 0.0	3 3 100.0	3 3 100.0	12 15 80.0
PPER TOPSOIL	FLAT	FERT 5	3 3 100.0	40.0			3 3 100.0 19.3	
PPER TOPSOIL PPER TOPSOIL	FLAT	FERT 5 HEIGHT (CM) FERT 6	3 3 100.0 48.3 3 3 100.0	40.0	0.0	14.7		

301L	WATER	FERT REP	•	A	RFR	ļ	ARN	0 !	C	<b>B</b> 10	ţ	į	JUSC	į	í	ROWE	)	į	T	OTAL	
	HARVEST	ſ					A T														
							L 0														
			ļ	I	T U	!	1 T	U !	I	T	U!	I	T	U!	1	T	U	ļ	I	T	U
			!	V	A R		V A	R :	V	A	R!	V	A	R:	V	Α	R	!	Ų	A	R
			!	<b>E</b>	L V	!	V A E L	V !	Ε	L	V !	E	L	V!	E	L	V	!	E	L	V
TOTAI																					
	L S FUR																				4/0.0
•							16 18										441.	,	67	YU	460.0
		HEIGHT	((24)	233.0			110.2		32.0	ĺ		83.1	5		113.1	B					
AVERAGE	FOR									<b></b>		· <b></b> ·					 				
				3	3 100	.0	3 3	88.9	1	3	22.2	3	3	94.5	2	_ 3	73.	6	12	15	76.7
STANDARD		HEIGHT	(04)	38.8			18.4		5.3	1		15.	)		19.	3					
STANDARD	DEV.	FERT				-										<b></b>		 -			·
				0	0 0	.0	0 0	15.7	0	0	15.7	0	. 0	12.4	1	. 0	22.	B	1	Ū	6.4
TOTA		HEIGHT	(DH)	5.2			5.8		4.1			2.3	1		3.	6					
TOTA	L S FOR	FLAT -			<del></del>						<b></b> -	• <b></b> ·	<b></b>								
				34	34 *00	.0	33 38	*50.1	19	36 :	599.9	35	36	¥66.7	25	36	825.	1	146	180	973.3
AVERAGE		HEIGHT	(DH)	475.6			219.0		73.8	}		196.	5		191.	8					
AVERAGE	FOR	Flat -																			
							3 3													15	81.1
		HEIGHT	(01)	39.6			18.3		6.2	?		16.	4		16.	0					
STANDARD	DEV.	FLAT				· <b>-</b>															
				0	0 0	.0	0 0	15.0	1	0	34.7	0	0	9.2	1	0	29.	3	1	Û	9.4
		HEIGHT	(CH)	5.5	ı		5.8		3.6	5		3.	6		5.	9					
																-					
•																					
						- G	RAND	TO	TAL	<b>S</b> -						-					
				67	70 *00	1.1	65 74	*16.8	30	72 5	966.5	70	72	*33.4	52	72	<b>*25.</b>	1	284	360	<b>*93.2</b>
		HEIGHT	(CM)	960.0			451.2		123.3	3		404.	9		399.	9					
•						- R	EPOR	:T 1	AVER	₹						-					
_				3	3 95	8.6	3 3	88.2	1	3	40.3	3	3	97.2	2	3	71.	9	12	15	78.9
		HEIGHT	(M3)																		
						-RE	PORT STA	NDARD	DEVIATI	I (IN-	<b></b> .					-					
				0	0 11	.0	1 0	18.1	1	0	34.7	0	0	9.2	1	0	31.	7	2	0	10.7
		HEIGHT	(CH)				5.9														

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CMER SUBSDIL   GRASS   DRILL   N   N   1   79,7   4.5   2.5   13,3   0.0   0.0   0.0   0.1   3.7   6.3   3.3	:OIL		SEED MIX	SEED METHOD	FERT	WATER HARVEST	REPS	BARE Ground %	ROCK %	LITTER (	ÆGETATION %	TREE %	SHRUB %	ANN. GRASS %	PER. GRASS %	ANN. FORB	PER. FORB	
THER SUBSOIL   SPASS   DRILL   N	.OWER	SUBSOIL	GRASS	DRILL	N	N	i	79.7	4.5	2.5		0.0						
PPER SUBSOIL GRASS DRILL N N 4 71.6 2.8 6.3 25.3 0.0 0.0 0.0 0.0 5.0 13.2 8.8  PPER SUBSOIL GRASS DRILL N N 5 77.7 3.3 0.0 19.0 0.0 0.0 0.0 0.0 5.0 13.2 8.8  PPER SUBSOIL GRASS DRILL N N 6 99.1 3.8 0.8 5.3 0.0 0.0 0.0 0.0 0.1 1.6 2.3 1.3  T 0 T A L S FOR N - 474.5 26.2 5.4 93.9 0.0 0.0 0.0 0.1 1.6 2.3 1.3  STANDARD DEV. N 5 6.1 3 0.8 6.0 0.0 0.0 0.0 0.1 1.4 7.9 3.7  STANDARD DEV. N 1 77.2 4.5 0.8 22.5 0.0 0.0 0.0 0.1 1.4 7.9 3.7  STANDARD DEV. N 1 77.2 4.5 0.8 22.5 0.0 0.0 0.0 0.1 1.4 4.6 3.1  STANDARD DEV. N 1 77.2 4.5 0.8 22.5 0.0 0.0 0.0 0.0 5.5 19.2 2.8  STANDARD DEV. N 3 68.9 5.3 0.8 25.0 0.0 0.0 0.0 0.0 5.5 19.2 2.8  STANDARD DEV. N 3 68.9 5.3 0.8 25.0 0.0 0.0 0.0 0.0 5.5 19.2 2.8  STANDARD DEV. N 3 68.9 5.3 0.8 25.0 0.0 0.0 0.0 0.0 7.7 19.2 2.8			GRASS	DRILL	N		2											
### PPER SUBSOIL ### GRASS DRILL N N N 5 77.7 3.3 0.0 19.8 0.0 10.0 0.0 0.0 5.0 12.2 0.8 ### PPER SUBSOIL ### GRASS DRILL N N N 6 90.1 3.8 0.8 5.3 0.8 0.0 0.0 0.0 0.0 0.1 1.6 2.3 1.3 ### CAPTER SUBSOIL #							_											
### PPER SUBSOIL GRASS DRILL N N 6 90.1 3.8 0.8 5.3 0.8 0.0 0.0 0.1 1.6 2.3 1.3  ### PPER SUBSOIL GRASS DRILL N N 6 90.1 3.8 0.8 5.3 0.8 0.0 0.0 0.0 0.1 1.6 2.3 1.3  ### PPER SUBSOIL GRASS DRILL N N 1 77.2 2.6 1.5 0.8 2.5 0.0 0.0 0.0 0.1 1.4 1.7 9 3.7  ### PPER SUBSOIL GRASS DRILL N N 1 77.2 4.5 0.8 2.5 0.0 0.0 0.0 0.1 1.4 1.6 3.1  ### PPER SUBSOIL GRASS DRILL N N 1 77.2 4.5 0.8 2.5 0.0 0.0 0.0 0.1 1.4 1.6 3.1  ### PPER SUBSOIL GRASS DRILL N N 2 6.7 1.5 0.8 2.5 0.0 0.0 0.0 0.5 5.1 9.2 2.8  ### DUER SUBSOIL GRASS DRILL N N 3 68.9 5.3 0.8 25.0 0.0 0.0 0.6 7.0 14.3 3.1  ### PPER SUBSOIL GRASS DRILL N N 4 58.7 1.5 0.3 37.5 0.0 0.0 0.0 0.6 7.0 14.3 3.1  ### PPER SUBSOIL GRASS DRILL N N 6 73.1 2.8 0.3 23.8 0.0 0.0 0.0 0.2 1.0 23.2 15.1  ### PPER SUBSOIL GRASS DRILL N N 6 73.1 2.8 0.3 23.8 0.0 0.0 0.0 0.3 2.4 13.4 7.7  ### PPER SUBSOIL GRASS DRILL N N 6 73.1 2.8 0.3 23.8 0.0 0.0 0.0 0.3 2.4 13.4 7.7  ### PPER SUBSOIL GRASS DRILL N N 6 73.1 2.8 0.3 23.8 0.0 0.0 0.0 0.2 1.7 2.8 13.4 7.7  ### PPER SUBSOIL GRASS DRILL N N 6 73.1 2.8 0.3 23.8 0.0 0.0 0.0 0.3 2.4 13.4 7.7  ### PPER SUBSOIL GRASS DRILL N N 6 73.1 2.8 0.3 23.8 0.0 0.0 0.0 0.3 2.4 13.4 7.7  ### PPER SUBSOIL GRASS DRILL N N 6 73.1 2.8 0.3 23.8 0.0 0.0 0.0 0.3 2.4 13.4 7.7  ### PPER SUBSOIL GRASS DRILL N N 6 73.1 2.8 0.3 23.8 0.0 0.0 0.0 0.3 2.4 13.4 7.7  ### PPER SUBSOIL GRASS DRILL N N 6 73.1 2.8 0.3 23.8 0.0 0.0 0.0 0.2 2.3 100.6 42.2  ### PPER SUBSOIL GRASS DRILL N N 6 73.1 2.8 0.3 23.8 0.0 0.0 0.0 0.2 2.7 0.0 0.0 0.0 0.3 2.4 13.4 7.7  ### PPER SUBSOIL GRASS DRILL N N 6 73.1 2.8 0.3 2.8 0.0 0.0 0.0 0.0 0.2 2.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0						• • •	•											
AVERAGE FOR N							5											
A74.5   26.2   5.4   93.9   0.0   0.0   0.3   24.3   47.2   22.1	<b>●</b> PPER	SUBSOIL	GRASS	DRILL	N	N	6	90.1	3.8	8.0	3.3	U.U	0.0	4.1	1.0	2.3	1.3	
THE AVERAGE FOR N - 79.1 4.4 0.9 15.7 0.0 0.0 0.0 0.1 1.4 4.6 3.1  LOWER SUBSOIL GRASS DRILL Y N 1 77.2 4.5 0.8 22.5 0.0 0.0 0.0 0.0 1.1 1.4 4.6 3.1  LOWER SUBSOIL GRASS DRILL Y N 2 67.5 4.0 1.0 27.5 0.0 0.0 0.0 0.0 5.5 19.2 2.8  JUPER SUBSOIL GRASS DRILL Y N 3 68.9 7.1 5.5 0.3 0.8 25.0 0.0 0.0 0.0 0.5 5.5 19.2 2.8  JUPER SUBSOIL GRASS DRILL Y N 3 68.9 7.1 5.5 0.5 28.3 0.0 0.0 0.0 0.0 0.5 5.5 19.2 2.8  JUPER SUBSOIL GRASS DRILL Y N 4 58.7 1.5 0.5 28.3 0.0 0.0 0.0 0.0 0.2 1.0 23.2 15.1  JUPER SUBSOIL GRASS DRILL Y N 5 69.7 1.5 0.5 28.3 0.0 0.0 0.0 0.0 0.2 1.0 23.2 15.1  JUPER SUBSOIL GRASS DRILL Y N 6 73.1 2.8 0.3 23.8 0.0 0.0 0.0 0.0 2.1 0.2 22.5  - TO T A L S FOR Y - 410.1 19.6 3.7 166.6 0.0 0.0 0.0 0.3 2.4 14.6 10.3  JUPER SUBSOIL GRASS DRILL Y N 6 73.1 5.0 0.3 5.6 0.0 0.0 0.0 0.2 2.3 10.6 42.2  - AVERAGE FOR DRILL Y N 6 73.1 2.8 0.3 5.6 0.0 0.0 0.0 0.2 2.3 10.4 4.6  - TO T A L S FOR DRILL Y N 6 73.1 2.8 0.3 5.6 0.0 0.0 0.0 0.2 2.3 10.4 4.6  - AVERAGE FOR DRILL - 7.5 1.5 0.6 8.4 0.0 0.0 0.0 0.2 2.7 6.0 4.3  - AVERAGE FOR DRILL - 7.5 1.5 0.6 8.4 0.0 0.0 0.0 0.2 1.7 6.0 4.3  - AVERAGE FOR GRASS - 884.6 45.8 9.1 260.5 0.0 0.0 0.0 0.2 1.7 6.0 4.3  - AVERAGE FOR GRASS - 884.6 45.8 9.1 260.5 0.0 0.0 0.0 0.2 1.7 6.0 4.3  - AVERAGE FOR GRASS - 73.7 3.8 0.8 21.7 0.0 0.0 0.0 0.2 1.7 6.0 4.3  - AVERAGE FOR GRASS - 73.7 3.8 0.8 21.7 0.0 0.0 0.0 0.2 1.7 6.0 4.3  - AVERAGE FOR GRASS - 73.7 3.8 0.8 21.7 0.0 0.0 0.0 0.2 1.7 6.0 4.3  - AVERAGE FOR BRILL - 75.1 5 0.6 8.4 0.0 0.0 0.0 0.2 1.7 6.0 4.3  - LOWER SUBSOIL SHRUB BROADCAST N N 1 72.0 3.0 0.0 0.0 25.0 0.0 0.0 0.0 0.0 1.1 19.5 0.7  JUPER SUBSOIL SHRUB BROADCAST N N 3 89.9 3.8 0.8 5.5 0.0 0.0 0.0 0.0 0.0 1.1 19.5 0.7  JUPER SUBSOIL SHRUB BROADCAST N N 3 89.9 3.8 0.8 5.5 0.0 0.0 0.0 0.0 0.0 1.1 19.5 0.7  JUPER SUBSOIL SHRUB BROADCAST N N 3 89.9 3.8 0.8 0.5 5.5 0.0 0.0 0.0 0.0 1.1 19.5 0.7  JUPER SUBSOIL SHRUB BROADCAST N N 5 75.4 6.3 0.6 0.5 17.5 0.0 0.0 0.0 0.0 1.1 19.5 0.7		T 0 T A L	S FOR	N					26.2	5.4	 93.9	0.0	 0.0	0.3	 24.3	47.2	22.1	
The first color of the first c		AVERAGE	FOR	N														
LOMER SUBSOIL   GRASS   DRILL   Y   N   1   72.2   4.5   0.8   22.5   0.0   0.0   0.4   3.0   15.9   3.2								79.1	4.4	0.9	15.7	0.0	0.0	0.1	4.1	7.9	3.7	
LOWER SUBSOIL GRASS DRILL Y N 1 72.2 4.5 0.8 22.5 0.0 0.0 0.0 0.4 3.0 15.9 3.2 0.0 0.0 0.0 0.8 0.5 19.2 2.8 0.0 0.0 0.0 0.0 0.5 19.2 2.8 0.0 0.0 0.0 0.0 0.5 19.2 2.8 0.0 0.0 0.0 0.0 0.5 19.2 2.8 0.0 0.0 0.0 0.0 0.5 19.2 2.8 0.0 0.0 0.0 0.0 0.5 19.2 2.8 0.0 0.0 0.0 0.0 0.5 19.2 2.8 0.0 0.0 0.0 0.0 0.5 19.2 2.8 0.0 0.0 0.0 0.0 0.0 0.5 19.2 2.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	•	Standard	DEV. N															
LOWER SUBSOIL GRASS DRILL Y N 2 67.5 4.0 1.0 27.5 0.0 0.0 0.0 5.5 19.2 2.8   LOWER SUBSOIL GRASS DRILL Y N 3 68.9 5.3 0.8 25.0 0.0 0.0 0.0 0.6 7.0 14.3 3.1  UPPER SUBSOIL GRASS DRILL Y N 4 58.7 1.5 0.3 39.5 0.0 0.0 0.0 0.0 1.0 21.0 23.2 15.1  UPPER SUBSOIL GRASS DRILL Y N 5 69.7 1.5 0.5 28.3 0.0 0.0 0.0 0.0 0.3 2.4 13.4 7.7								5.6	1.3	0.8	6.0	0.0	0.0	0.1	1.4	4.6	3.1	
LOWER SUBSOIL GRASS DRILL Y N 2 67.5 4.0 1.0 27.5 0.0 0.0 0.0 5.5 19.2 2.8   LOWER SUBSOIL GRASS DRILL Y N 3 68.9 5.3 0.8 25.0 0.0 0.0 0.0 0.6 7.0 14.3 3.1  UPPER SUBSOIL GRASS DRILL Y N 4 58.7 1.5 0.3 39.5 0.0 0.0 0.0 0.0 1.0 21.0 23.2 15.1  UPPER SUBSOIL GRASS DRILL Y N 5 69.7 1.5 0.5 28.3 0.0 0.0 0.0 0.0 0.3 2.4 13.4 7.7																		
LOWER SUBSOIL GRASS DRILL Y N 2 67.5 4.0 1.0 27.5 0.0 0.0 0.0 5.5 19.2 2.8   LOWER SUBSOIL GRASS DRILL Y N 3 68.9 5.3 0.8 25.0 0.0 0.0 0.0 0.6 7.0 14.3 3.1  UPPER SUBSOIL GRASS DRILL Y N 4 58.7 1.5 0.3 39.5 0.0 0.0 0.0 0.0 1.0 21.0 23.2 15.1  UPPER SUBSOIL GRASS DRILL Y N 5 69.7 1.5 0.5 28.3 0.0 0.0 0.0 0.0 0.3 2.4 13.4 7.7	OUED	CUDCOTI	CBACC	NOTE:	v	M	•	72 2	A 5	nΩ	22 5	0.0	0.0	0.4	3.0	15.9	3.2	
BAMER SUBSOIL BRASS DRILL Y N 3 68.9 5.3 0.8 25.0 0.0 0.0 0.0 0.6 7.0 14.3 3.1 UPPER SUBSOIL BRASS DRILL Y N 4 58.7 1.5 0.3 39.5 0.0 0.0 0.0 0.2 1.0 23.2 15.1 UPPER SUBSOIL GRASS DRILL Y N 5 69.7 1.5 0.5 28.3 0.0 0.0 0.0 0.3 14.4 10.3 UPPER SUBSOIL GRASS DRILL Y N 6 73.1 2.8 0.3 23.8 0.0 0.0 0.0 0.3 14.4 10.3 UPPER SUBSOIL GRASS DRILL Y N 6 73.1 2.8 0.3 23.8 0.0 0.0 0.0 0.3 2.4 13.4 7.7 10.0 0.0 0.0 0.0 0.3 1.5 22.3 10.6 42.2 10.0 0.0 0.0 0.0 0.3 1.5 22.3 10.6 42.2 10.0 0.0 0.0 0.0 0.0 0.3 1.5 22.3 10.6 42.2 10.0 0.0 0.0 0.0 0.0 0.3 1.5 22.3 10.6 42.2 10.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.			•		•		-										-	
UPPER SUBSOIL   GRASS   DRILL   Y   N   4   58.7   1.5   0.3   39.5   0.0   0.0   0.2   1.0   23.2   15.1     UPPER SUBSOIL   GRASS   DRILL   Y   N   5   69.7   1.5   0.5   28.3   0.0   0.0   0.0   0.0   3.4   14.6   10.3     UPPER SUBSOIL   GRASS   DRILL   Y   N   6   73.1   2.8   0.3   23.8   0.0   0.0   0.0   0.3   2.4   13.4   7.7					•													
UPPER SUBSOIL UP					•		_										15.1	
UPPER SUBSOIL GRASS DRILL Y N 6 73.1 2.8 0.3 23.8 0.0 0.0 0.0 0.3 2.4 13.4 7.7 T 0 T A L S FOR Y					•	.,						0.0	0.0	0.0	3.4	14.6	10.3	
AVERAGE FOR Y -   68.4   3.3   0.6   27.8   0.0   0.0   1.5   22.3   100.6   42.2					Υ	N	6	73.1	2.8	0.3	23.8	0.0	0.0	0.3	2.4	13.4	7.7	
AVERAGE FOR Y -   68.4   3.3   0.6   27.8   0.0   0.0   1.5   22.3   100.6   42.2																		
68.4 3.3 0.6 27.8 0.0 0.0 0.3 3.7 16.8 7.0 STANDARD DEV. Y		TOTAL	S FOR	γ				. <b></b> .				. <i></i> -					40.0	
68.4 3.3 0.6 27.8 0.0 0.0 0.3 3.7 16.8 7.0 STANDARD DEV. Y								410.1	19.6	<b>3.</b> 7	166.6	U.U	U.U	1.3	22.3	100.0	42.2	
		AVERAGE	FOR	Y							27.0				27	14.9	7.0	
## A PRILE BROADCAST N N 1 72.0 3.0 0.0 25.0 0.0 0.0 0.0 0.2 2.0 3.4 4.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		OTANDADA	651 5	ı				68.4	3.3	0.0	2/10	0.0						_
884.6 45.8 9.1 260.5 0.0 0.0 1.8 46.6 147.8 64.3  - AVERAGE FOR DRILL - 73.7 3.8 0.8 21.7 0.0 0.0 0.2 3.9 12.3 5.4  - STANDARD DEV. DRILL - 7.5 1.5 0.6 8.4 0.0 0.0 0.0 0.2 1.7 6.0 4.3  - TO TALS FOR GRASS - 884.6 45.8 9.1 260.5 0.0 0.0 1.8 46.6 147.8 64.3  - AVERAGE FOR GRASS - 884.6 45.8 9.1 260.5 0.0 0.0 1.8 46.6 147.8 64.3  - AVERAGE FOR GRASS - 73.7 3.8 0.8 21.7 0.0 0.0 0.2 3.9 12.3 5.4  - STANDARD DEV. GRASS - 75.5 1.5 0.6 8.4 0.0 0.0 0.0 0.2 3.9 12.3 5.4  - STANDARD DEV. GRASS - 75.5 1.5 0.6 8.4 0.0 0.0 0.0 0.2 3.9 12.3 5.4  - STANDARD DEV. GRASS - 75.4 0.0 0.0 0.0 0.0 0.2 1.7 6.0 4.3  - LOWER SUBSOIL SHRUB BROADCAST N N 1 72.0 3.0 0.0 25.0 0.0 0.0 0.0 0.2 1.7 6.0 4.3  - LOWER SUBSOIL SHRUB BROADCAST N N 2 73.7 4.0 1.0 21.3 0.0 0.0 0.0 0.0 1.1 19.5 0.7  - LOWER SUBSOIL SHRUB BROADCAST N N 3 89.9 3.8 0.6 5.5 0.0 0.4 0.0 0.8 3.2 1.1  - UPPER SUBSOIL SHRUB BROADCAST N N 4 57.6 2.8 1.3 38.3 0.0 0.0 0.0 0.2 1.2 16.1 0.0		SIANDARD	DEV.		· - •				15	n 3	5.4	0.0	0.0	0.2	2.0	3.4	4.6	
884.6 45.8 9.1 260.5 0.0 0.0 1.8 46.6 147.8 64.3 STANDARD DEV. DRILL		T O T A !	S END	NP111														
73.7 3.8 0.8 21.7 0.0 0.0 0.2 3.9 12.3 5.4 STANDARD DEV. DRILL		10142	O I ON	UNIEL				884.6	45.8	9.1	260.5	0.0	0.0	1.8	46.6	147.8	64.3	
73.7 3.8 0.8 21.7 0.0 0.0 0.2 3.9 12.3 5.4 STANDARD DEV. DRILL	<b>-</b>	AVERAGE	FOR	DRILL		<b></b> .												
7.5 1.5 0.6 8.4 0.0 0.0 0.2 1.7 6.0 4.3  AVERAGE FOR GRASS									3.8	8.0	21.7	0.0	0.0	0.2	3.9	12.3	5.4	
884.6 45.8 9.1 260.5 0.0 0.0 1.8 46.6 147.8 64.3 AVERAGE FOR GRASS		Standard	DEV. 1	DRILL							<del>-</del>		. <b></b> -	. <b></b> .	. <b></b> -			-
R84.6   45.8   9.1   260.5   0.0   0.0   1.8   46.8   147.8   64.3								7.5	1.5	0.6	8.4	0.0	0.0	0.2	1.7	6.0	4.3	
73.7 3.8 0.8 21.7 0.0 0.0 0.2 3.9 12.3 5.4  75. 1.5 0.6 8.4 0.0 0.0 0.2 1.7 6.0 4.3  LOWER SUBSOIL SHRUB BROADCAST N N 1 72.0 3.0 0.0 25.0 0.0 0.0 0.0 0.0 0.6 24.3 0.1  LOWER SUBSOIL SHRUB BROADCAST N N 2 73.7 4.0 1.0 21.3 0.0 0.0 0.0 0.0 1.1 19.5 0.7  LOWER SUBSOIL SHRUB BROADCAST N N 3 89.9 3.8 0.8 5.5 0.0 0.4 0.0 0.8 3.2 1.1  UPPER SUBSOIL SHRUB BROADCAST N N 4 57.6 2.8 1.3 38.3 0.0 0.0 0.0 0.0 1.1 37.2 0.0  UPPER SUBSOIL SHRUB BROADCAST N N 5 75.4 6.3 0.8 17.5 0.0 0.0 0.0 0.2 1.2 16.1 0.0		TOTAL	S FOR	GRASS					 4- ^		2/05				 A	147 0	44.2	
73.7 3.8 0.8 21.7 0.0 0.0 0.2 3.9 12.3 5.4  7.5 1.5 0.6 8.4 0.0 0.0 0.2 1.7 6.0 4.3  LOWER SUBSOIL SHRUB BROADCAST N N 1 72.0 3.0 0.0 25.0 0.0 0.0 0.0 0.0 0.6 24.3 0.1  LOWER SUBSOIL SHRUB BROADCAST N N 2 73.7 4.0 1.0 21.3 0.0 0.0 0.0 0.0 1.1 19.5 0.7  LOWER SUBSOIL SHRUB BROADCAST N N 3 89.9 3.8 0.6 5.5 0.0 0.4 0.0 0.8 3.2 1.1  UPPER SUBSOIL SHRUB BROADCAST N N 4 57.6 2.8 1.3 38.3 0.0 0.0 0.0 0.0 1.1 37.2 0.0  UPPER SUBSOIL SHRUB BROADCAST N N 5 75.4 6.3 0.8 17.5 0.0 0.0 0.2 1.2 16.1 0.0	•	ALIEBACE	ron	00400				884.6	45.8	9.1	260.0	υ.u 				14/.0 		
TOTAL STANDARD DEV. GRASS		AVERAGE	FUK	UKA55				75 7	 20	10	21.7	n n	n.n	0.7	3.9	12.3	5.4	
TOWER SUBSOIL SHRUB BROADCAST N N 1 72.0 3.0 0.0 25.0 0.0 0.0 0.0 0.0 0.6 24.3 0.1 LOWER SUBSOIL SHRUB BROADCAST N N 2 73.7 4.0 1.0 21.3 0.0 0.0 0.0 0.0 1.1 19.5 0.7 LOWER SUBSOIL SHRUB BROADCAST N N 3 89.9 3.8 0.6 5.5 0.0 0.4 0.0 0.8 3.2 1.1 UPPER SUBSOIL SHRUB BROADCAST N N 4 57.6 2.8 1.3 38.3 0.0 0.0 0.0 0.0 1.1 37.2 0.0 UPPER SUBSOIL SHRUB BROADCAST N N 5 75.4 6.3 0.8 17.5 0.0 0.0 0.0 0.2 1.2 16.1 0.0	l	AGAMATO	מבון ו	00000									. <b>-</b>					-
LOWER SUBSOIL         SHRUB BROADCAST N N 1         72.0         3.0         0.0         25.0         0.0         0.0         0.0         0.6         24.3         0.1           LOWER SUBSOIL         SHRUB BROADCAST N N 2         73.7         4.0         1.0         21.3         0.0         0.0         0.0         1.1         19.5         0.7           LOWER SUBSOIL         SHRUB BROADCAST N N 3         89.9         3.8         0.6         5.5         0.0         0.4         0.0         0.8         3.2         1.1           UPPER SUBSOIL         SHRUB BROADCAST N N 4         57.6         2.8         1.3         38.3         0.0         0.0         0.0         1.1         37.2         0.0           UPPER SUBSOIL         SHRUB BROADCAST N N 5         75.4         6.3         0.8         17.5         0.0         0.0         0.2         1.2         16.1         0.0								7 5	1.5	0.6	8.4	0.0	0.0	0.2	1.7	6.0	4.3	
LOWER SUBSOIL SHRUB BROADCAST N N 2 73.7 4.0 1.0 21.3 0.0 0.0 0.0 1.1 19.5 0.7  LOWER SUBSOIL SHRUB BROADCAST N N 3 89.9 3.8 0.6 5.5 0.0 0.4 0.0 0.8 3.2 1.1  UPPER SUBSOIL SHRUB BROADCAST N N 4 57.6 2.8 1.3 38.3 0.0 0.0 0.0 1.1 37.2 0.0  UPPER SUBSOIL SHRUB BROADCAST N N 5 75.4 6.3 0.8 17.5 0.0 0.0 0.2 1.2 16.1 0.0														. <b></b> .				-
LOWER SUBSOIL SHRUB BROADCAST N N 2 73.7 4.0 1.0 21.3 0.0 0.0 0.0 1.1 19.5 0.7  LOWER SUBSOIL SHRUB BROADCAST N N 3 89.9 3.8 0.6 5.5 0.0 0.4 0.0 0.8 3.2 1.1  UPPER SUBSOIL SHRUB BROADCAST N N 4 57.6 2.8 1.3 38.3 0.0 0.0 0.0 1.1 37.2 0.0  UPPER SUBSOIL SHRUB BROADCAST N N 5 75.4 6.3 0.8 17.5 0.0 0.0 0.2 1.2 16.1 0.0																		
LOWER SUBSOIL SHRUB BROADCAST N N 3 89.9 3.8 0.6 5.5 0.0 0.4 0.0 0.8 3.2 1.1 UPPER SUBSOIL SHRUB BROADCAST N N 4 57.6 2.8 1.3 38.3 0.0 0.0 0.0 1.1 37.2 0.0 UPPER SUBSOIL SHRUB BROADCAST N N 5 75.4 6.3 0.8 17.5 0.0 0.0 0.2 1.2 16.1 0.0	LOWER	SUBSOIL	SHRUB	BROADCAST	T N			72.0					0.0	0.0	0.6	24.3	0.1	
UPPER SUBSOIL SHRUB BROADCAST N N 4 57.6 2.8 1.3 38.3 0.0 0.0 0.0 1.1 37.2 0.0 UPPER SUBSOIL SHRUB BROADCAST N N 5 75.4 6.3 0.8 17.5 0.0 0.0 0.2 1.2 16.1 0.0	LOWER	SUBSOIL	SHRUB	BROADCAS"	T N													
UPPER SUBSOIL SHRUB BROADCAST N N 5 75.4 6.3 0.8 17.5 0.0 0.0 0.2 1.2 16.1 0.0																		
● UPPER SUBSUIL SHRUB BROADCAST N N 6 78.4 7.8 0.3 13.5 0.0 2.0 0.1 1.8 9.6 0.0											17.5	0.0	).Q.(					
		· SUBSOIL	SHRUB	BROADCAS.	: N	14	ó	78.≟	7.8	s 0.3	13.5	0.1	υ Z.t			7.0	0.0	

	SOIL	SEED MIX	SEED Method		HARVEST		BARE Ground %			VEGETATION %			ANN. GRASS Z			PER. FORB %	
	TOTAL	. S FOR	N	· <b></b>								· <b>-</b> -		· • • •			
	AVERAGE	FOR	N	·			447.0 	27.7 	4.2	121.1	0.0	2.4	0.3	6.6	109.9	1.9	
	STANDARD	DEV. N	<b>i</b>				74.5	4.6	0.7	20.2	0.0 	0.4	9.1	1.1	18.3	0.3	-
								1.8	0.4	10.2	0.0	0.7	0.1	0.4	10.8	0.4	_
•	LOWER SUBSOIL	SHRUB	BROADCAST	Y	N	1	75.0	5.5	0.5	19.0	0.0	0.0	0.0	0.5	12.6	5.9	
	LOWER SUBSOIL	SHRUB	BROADCAST	Y	N	2	83.2	3.5	0.5	12.8		1.3	0.0		9.0	1.5	
	LOWER SUBSOIL UPPER SUBSOIL	SHRUB		Y		3	54.4	1.3	0.5		0.0	0.0	0.0	1.2	42.1	0.5	
		SHRUB SHRUB	BROADCAST BROADCAST	Y	N	4	43.5	1.5	0.0		0.0	4.1	0.0		50.8	0.0	
)		SHRUB			N N		62.7	1.5	0.0	35.8	0.0	0.0	0.0		35.2	0.0	
				-	••	_	70.9	3.8			0.0		0.3	9.6	23.4	0.9	
	TOTAL																
	AVERAGE	FOR	Y												1/3.1		
	STANDARD	DEV. Y	·				65.0 	2.9	0.3	32.0	0.0	0.9	0.1	8.7	28.8	1.5	_
	TOTAL	S FOR	BROADCAST -				13.2	1.5	0.3	14.5	0.0	1.5	0.1	0.4	15.2	2.0	
	AVERAGE						834.7	44.8	5.7	312.8	0.0	7.9	0.6	10.6	283.0	10.7	
	STANDARD							3.7	8.5	 26.1		 0 7	 0 1	 n o	 22 4		
•	STANDARD	DEV. B	ROADCAST -														
							12.5	1.9	0.4 	13.8	0.0 	1.2 	0.1 	0.4	14.2 	1.6 	
	LOWER SUBSUIL	SHRUB	DRILL	N	N	1	67.0 78.9 79.9	7.5	0.5	25.0	n .n	0.0	n n	0.3	24.6	0.1	
	LOMEK SORROLL	SHRUB	DRILL	N	N	2	78.9	6.8	1.0	13.3	0.0	0.0	0.5	0.7	11 3	0.8	
•	COMER SUBSUIL	SHRUB	DRILL	N	N	3	79.9	5.0	2.3	12.8	0.0	0.0		0.3		0.6	
	UPPER SUBSOIL	SHRUB	DRILL	N	N	4	67.2	2.5	0.8						28.2		
	UPPER SUBSOIL	SHRUB	DRILL DRILL	N	N	5	81.7	3.5		14.5	0.0				13.2		
	UPPER SUBSOIL	SHKUB	DKILL	N	N	6	80.1	9.3	1.3					2.2	6.2	0.2	
	TOTAL	S FOR N	<b> </b>														
•	AVERAGE	FOR N	l <b>-</b>							104.4							
	STANDARD	DEU. N				<b></b>	75.8	5.8	1.0	17.4	0.0	0.0	0.3	0.8	15.8	0.6	
		II		_			ó.2	2.3	0.7	7.3							
)											·						
	LOWER SUBSOIL	SHRUB	DRILL	Υ	N	1	62.5	9.5	0.5	27.5	0.0	o n	0 2	1 5	25.6	n •	
	LOWER SUBSOIL	פטאתכ	DRILL	Y	N	2	65.2	3.3	1.5	30.0	0.0				27.3	0.1	
	LUMER SUBSOIL	SHRUB	DRILL	γ.	N	3	73.9	4.4	0.0	21.7	0.0				19.0	0.0	
	UPPER SUBSOIL	SHRUB	DRILL		N	4	54.6	4.3	0.3	40.8	0.0		0.1		39.7	0.3	
		SHRUB		Υ	Н	5		1.3	0.0	28.0	0.0	0.0			26.5		
•	UPPER SUBSOIL	SHRUB	DRILL	Y	N	6	78.2				0.0				15.4		

301L	SEED MIX	SEED Method		WATER HARVEST	RÉPS	BARE GROUND %			VEGETATION X			GRASS	GRASS		FOR8
TBTAL	s for	Y				405.1	 25.3	2.6	167.0	0.0	0.0	 2.9	9.1	153.5	1.5
AVERAGE						67.5	4.2	0.4	27.8	0.0	0.0	0.5	1.5	25.6	0.3
STANDARD						7.0	2 4	0.5	6.9	0.0	0.0	0.5	0.6	7.6	0.3
AVERAGE						859.9	59.9	8.8	271.4	0.0	0.0	4.4	13.6	248.6	4.8
STANDARD						71.7	5.0	0.7	22.6	0.0	0.0	0.4	1.1	20.7	0.4
TOTAL						8.2	,		8.8						
AVERAGE						*96.6 	104.7	14.5	584.2						
STANDARD	DEV.	SHRUB							24.3 						
•						10.0									
•					G R	AND T *81.2	0 T A 150.5	LS - 23.6	844.7	0.0	7.9	6.8	70.8	679.4	79.8
					K E	FUKI 71.7 TSTANDAD	4.2 4.2 neur	E K 0.7 ∆TION-	23.5	0.0	0.2	0.2	2.0	18.9	2.2
		<del>_</del> •	- <b>~</b>	- <del></del>	REFUR	9.8	2.1	0.6	10.8	0.0	0.8	0.3	1.8	11.4	3.4

SOIL			EED	SEED METH	FEI	АЫ ТУ МАН	TER R Vest	EPS					*141							
	AGINE			LILE	SPMU	ARTR	ATCA	CELA	CEMO	CHNA	KOPR	PUTR	JUV. Grass	TREE	SHRUB	ANN. GRASS	GRASS	ANN. FORB	PER. Forb	TOTAL
LOWER SUBS	SOIL	S	HRUB	BROADCA	est n	1 1	4	1												
SEEDED UNSEEDED TOTAL	1.5	0.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	0.9	0.0	0.0				70.0		3.0 70.0
LOWER SUBS	ודמ	e	NOIR	DDOARCA	OT M			_						0.0	0.0	0.8	2.0	70.8	1.0	73.0
SEEDED	5.5	· 6.5	nkud 4 5	DKUHUUA 5 A 5	א נכו חח	M !		2												
UNSEEDED TOTAL				6.5				e. <b>u</b>	<b>u.u</b>	0.9	5.5	9.9	e. <b>9</b>	0.0		0.0		26.5		26.5
LOWER SUBS	OIL	S	HRUB	BROADCA	et n	N		3							0.0	0.0	12.0	20.3	11.0	49.5
SEEDED	2.5	32.5	11.5	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0		35.0		36.5	71.5
UNSEEDED TOTAL															0.0	0.0				8.0
	OT:	C	IDIID	5554554	<b></b>									0.0	0.0	0.0				79.5
UPPER SUBSI	3 U	3 5	1KUB	RKNADCA	51 N	N O		4												
UNSEEDED	2.0	0.0	0.0	0.0	0.0	0.0	0.0	U.U	0.0	0.0	0.0	0.0	0.0		0.0		5.5		0.0	5.5
TOTAL														0.0 0.0		0.0		34.5		34.5
UPPER SUBS	DIL	Sł	IRUB	BROADCA	ST N	N		5						0.0	0.0	0.0	5.5	34.5	0.0	40.0
SEEDED	1.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0		4.5		0.0	4.5
UNSEEDED TOTAL														0.0		0.5		44.8		45.0
	171	er.	1000 s	0004004	·									0.0	0.0	0.5			0.0	49.5
UPPER SUBSE SEEDED	2.8	15	ו אטאו ואטאו	BKUADLA	ol N	N	۸.	6												
UNSEEDED	210	1.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	1.0	0.0				3.5		0.0	5.0
TOTAL																		35.5		36.5
	•													0.0	1.5	0.5	4.0	35.5	0.0	41.5
7	OTA	LSF	OR N		·	· <b></b> -			:	<b></b> -										
SEEDED	15.0	47.5	14.0	32.5	8.0	0.0	0.5	0.0	0 0											
UNSEEDED				52.0	0.0	0.0	0.5	0.8	0.0	0.0	U.U	1.0	0.0						48.5	
TOTAL														0.0				218.5		
	AVERAGE	FOR	N		·		. <b></b> .	<b></b> -		. <b></b> .				0.0	1.5	1.0	63.5	218.5	48.5	333.0
																			,	
SEEDED	2.5	7.9	2.7	5:4	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0		0.3		18 A		Ω 1	18.8
utkSEEDED ToTA:														0.0				36.4		
TOTAL 6'	TANBADA			•														36.4		
	i HANHIK D	UEV.	. N-																	
SEEDED	1.4	11 2	4 3	0 1	0.0	0 0	6.0	۸ ۵												
SEEDED Unseeded	• • •		7.0	7.1	0.0	0.0	U.Z	U.U	U.U	0.0	0.0	0.4	0.0		0.6		11.4		13.3	24.6
TOTAL														0.0	0.0	0.2	0.2	18.7	0.0	18.8
					<b></b>									0.0	0.6	0.2	11.3	18.7	13.3	15.2
NUED CHOOM	'i	CUD	un n	3045045																
OWER SUBSOI		0 E	OR RI	RUADCAST	Y	N	1													
GEEDED Ungeeded	3.0	7.3	2.0	1.5	U.U	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0		12.5		3.5	16.0
TOTAL														0.0	0.0	0.0	0.0	55.5	0.5	56.0
OWER SUBSOI	L	SHR	UB AF	READCAST	. у	N	2							0.0	0.0	0.0	12.5	55.5	4.0	72.0
SEEDED	5.5	11.0	1.5	1.5	0.0	N.O	1.5	0.5	0.0	0.0	0.0	0 0	0.0		3.5		=			
UNSEEDED				- • •		J.0		0.3	0.0	0.0	0.0	0.0				0.0			3.0	
TOTAL																		14.5		
														טיט	2.0	U.U	10.3	14.5	3.5	36.5

SOIL	AGINE	M	ΙX	SEED METH LILE		t wat Haru Artr	/EST		CEMO	CHNA	KOPR	PUTR	JUV. GRASS	TREE	SHRUB	ANN. GRASS	PER. GRASS	ANN. FORB	PER. FORB	TOTAL
LOWER SUBS SEEDED UNSEEDED TOTAL	2.5	3.5	1.0	1.5	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.8	0.0 0.0			0.0	16.5	0.0	16.5
UPPER SUBS SEEDED UNSEEDED TOTAL	0.0	3.0	0.0	0.0	0.0	0.0	8.5		0.0	0.0	9.0	0.0	0.0		0.5		3.0 0.0	34.5	0.0	3.5
UPPER SUBS SEEDED UNSEEDED TOTAL	8.5	1.5	0.0	0.0	0.0	0.0	0.0	5 0.0	0.0	0.0	0.0	0.0	0.0		0.0		2.0 0.5	19.0 19.0	0.0	2.0 19.5 21.5
UPPER SUBS SEEDED UNSEEDED TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.5							0.0	0.5 0.0 0.5	1.0	0.0 0.5	25.0 25.0	0.0 0.5	0.5
SEEDED UNSEEDED TOTAL	11.5	28.5	4.5	4.5	0.0	0.0	2.5		0.0	0.0	0.0	0.0			3.0 0.0	1.0	1.0	165.0 165.0	1.5	168.5
SEEDED UNSEEDED TOTAL	1.9	4.8	0.8	0.8				*						0.0	0.5 0.0 0.5	0.2 0.2	0.2	27.5 27.5	0.3	28.1
SEEDED UNSEEDED TOTAL T	2.0	4.1	0.8	0.8										0.0 0.0	0.0	0.4	0.2	14.2 14.2		7.7 14.1 16.8
GEEDED UNSEEDED TOTAL	26.5	76.0	20.5	37.0	0.0	0.0	3.0				0.0	1.0	0.0	0.0 0.0	4.5 0.0 4.5	2.0 2.0	2.0	383.5 383.5	1.5	389.0
SEEDED UNSEEDED TOTAL	2.2	6.3	1.7	3.1	0.0	0.0	0.3		0.0	0.0	0.0	0.1		0.0	0.4 3.0 0.4	0.2	0.2	32.0 32.0	0.1	13.7 32.4 46.1
BEEDED DASEEDED TOTAL	1.7	8.5	3.2		0.0	0.0	0.4	0.1			0.0	0.3		9.0	0.6	0.3	0.2	17.2	0.2	17.2

CAMER SUBSOIL   SERRUB DRILL   N N   1   1   1   1   1   1   1   1		SOIL		N	EED IIX ASC	SEED METH I LILE	FER SPNU	T WAT HARL ARTR	JEST		CEMO	CHINA	KOPR	PUTR	JUV. Grass	TREE	SHRUB	ANN. GRASS	PER. GRASS	ANN.	PER. FORB	TOTAL
SEEDED   0.5   9.5   2.0   1.0   0.8   0.0   0		SEEDED UNSEEDED TOTAL	0.0	3.0	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0		0.0		0.0	73.5	0.5	74.5
SEEDED 0.5 6.5 1.0 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		seeded Unseeded Total	0.5	9.0	2.0	1.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	9.5 0.5	26.0	3.0 0.0	12.5 27.5
SEEDED 0.5 6.5 3.5 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		SEEDED UNSEEDED TOTAL	8.5	6.5	1.0	0.5	0.0	0.0	0.0		0.0	0.0	0.5	0.0	0.0	0.0	0.5 0.0	1.5	7.0 0.0	35.5	1.5	9.0 37.0
SEEDED   0.5   8.0   1.5   3.0   0		SEEDED UNSEEDED TOTAL	0.5	6.5	3.5	0.5	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0 0.0	84.5	4.0	11.0 84.5
SEEDED 3.0 5.0 0.0 3.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	•	SEEDED UNSEEDED TOTAL	0.5	8.0	1.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0		8.5 0.0	49.5	4.5 0.0	13.0 49.5
SEEDED   S. 0   38.0   8.0   8.5   0.0		SEEDED Unseeded	3.0	5.0	0.0	3.5					0.0	0.0	0.0	0.0	0.0		0.0		0.5		3.5 0.0	11.5 22.5
UNSEEDED TOTAL									- <b>-</b> -	•		· <b></b> -		·		· <b>-</b>		·	· <b>-</b> -			
SEEDED 0.8 6.3 1.3 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.0		UNSEEDED TOTAL					0.0	9.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	4.0	1.0	290.0	0.5	295.5
SEEDED 1.0 2.0 1.2 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		SEEDED INSEEDED TOTAL	8.0	6.3	1.3						0.0	0.0	0.1	0.0	0.0	0.0	9,0	0.7	0.2	48.3	0.1	49.3
SEEDED 0.5 2.0 0.9 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	•	SEEDED UNSEEDED									0.0	0.0	0.2	0.0		0.9	0.0	0.6	9.2	23.6	0.2	23.2
SEEDED 0.5 2.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	_	OWER SUBSOI	Ĺ	SHR	UB OF	 ?T::	<b></b>	N	· <b></b> .			•				· - ·				·	·	
SEEDED 1.0 5.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		GEEDED UNGEEDED TOTAL	0.5	2.0	0.9	1.0	0.0	0.0	0.0		0.0	0.0	0,0	0.0		9.0	0.0	1.0	1.5	32.0	0.0	34.5
	•	SEEDED UNSEEDED	1.0	5.0	0.0 0.0	0.0	Y 0.0	N 0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0 0.0	1.5	6.0 0.5 (	33.5	0.0 0.0	6.0 35.5

SOIL AGINE	SEED MIX ORHY ASC	SEED METH		HARVE HARTR	ST.		CEMO	CHNA	KOPR		JUV. Grass	TREE		ANN. GRASS		ANN. FORB	PER. FORB	TOTAL
CLOWER SUBSOIL SEEDED 1.3 UNSEEDED TOTAL	SHRUB 8.7 0.	DRILL 0 0.0	Y 0.0	N 0.0	0.0	3							0.0 0.0	2.0				10.0 24.0 34.0
UPPER SUBSOIL SEEDED 1.0 UNSEEDED TOTAL	SHRUB 2.5 1.					0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0 0.8			28.5 28.5	1.5 0.5 2.0	5.0 30.0 35.0
UPPER SUBSOIL SEEDED 0.5 UNSEEDED TOTAL	SHRUB 12.0 0.		9.0			5 0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	12.5 1.0 13.5		0.5	12.5 25.0 37.5
SEEDED 2.0 UNSEEDED TOTAL	SHRUB 4.5 1.					6.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0 0.0	0.5	6.5 2.5 9.0			7.5 33.5 41.8
SEEDED 6.3 UNSEEDED TOTAL	34.7 2.	.0 1.5		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		5.5			2.0	44.5 182.5 227.0
SEEDED 1.1 UNSEEDED TOTAL			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.9		28.1	0.3	
UNSEEDED     TOTAL	3.5 0	.5 0 <i>.</i> 4	0.0	0.0	0.0							0.0 0.0	0.0	0.7	8.7		0.6 0.4 0.8	3.0 4.5 2.8
SEEDED 11.3 UNSEEDED TOTAL	72.7 10	.û 10.0	0.0	0.0								9.0	0.0	9.5	7.7	458.3	2.5	104.5 478.0 582.5
SEEDED 0.9 UNSEEDED TOTAL	6.1 0	.8 0 <b>.8</b>	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.8	7.0 0.6	38.2	0.2	39.8
SEEDED 0.8 UNISEEDED TOTAL	÷							0.0	0.1	0.0	0.0	0.0		0.6		19.8	0.3	19.2

												.n.								
SOIL				SEED NETH	FER		ter ri Vest	EPS					JW.			ANN	PER.	AARI	DED	
	A6INE	ORHY	ASCI	LILE	SPMU	ARTR	ATCA	CELA	CEMO	CHNA	KOPR	PUTR	GRASS	TREE	SHRUB	6RASS	GRASS	FORB	PER. Forb	
								6 R A	N D	TOT	ALS				· • ·				· <b>-</b> - ·	
SEEDED Unseeded Total	37.8	148.7	30.5	47.0	0.0	0.0	3.0	0.5	0.0	0.0	8.5	1.0	. 0.0	9.8	5.0 0.0	11.5	186.5 9.7			269.0 867.0
	<u>-</u>	· <b></b> .	·	• <b>-</b>	· • • •		·	REP	0 R T	A	≯E R.								81.5	1136.0
seeded Unseeded Total	1.6	6.2	1.3	2.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0			7.8 0.4	35.1	3.2 0.2	11.2 36.1
·			·	· <b>-</b>				REPORT	STAND	ard dev	/IATIO	<b>Y</b> -		8.0	0.2	0.5	8.2	35.1	3.4	47.3
SEEDED Unseeded	1.5	6.4	2.4	5.0	0.0	0.0	0.3	0.1	8.0	0.0	8.1	0.2	0.0	0.0	0.5 0.0	0.6		18.8	7.3	13.8
TOTAL														8.8	0.5	0.6	6.8	18.8	0.3 7.3	18.6 18.8

and .

#### SUBSOIL

SOIL •	v.	SEED MIX	SEED METH AGOA		t wate Harve Agine	ST		ELCI	ORHY	MESA	MEOF	Juv. Grass	TREE	SHRUB	ann. Grass	PER. GRASS	ANN. FORB	PER. Forb	TOTAL
LOWER	SUBSOIL	GRASS SEEDED UNSEEDED TOTAL	DRILL 1.5	3.8		1.8	1 1.5	0.0	2.0	1.5	2.6	0.5	0.0 0.0	0.0 9.0	0.0 0.0			3.5 9.0 3.5	14.5 35.5 50.0
LOWER	SUBSOIL	-	DRILL 0.5	5.8		1.5	1.0	0.0	3.5	0.0	0.0	8.0	0.0 0.0	0.0	0.5	14.0 8.0 14.0	40.0	0.0 0.0	14.0 40.5 54.5
•	SUBSOIL	GRASS SEEDED UNSEEDED TOTAL	1.0	3.0	1.0	0.5	3.0	0.0	5.5	1.5	1.5	0.0	0.0 0.0	0.0 0.0		14.0 0.8 14.0	17.5 17.5	3.0 0.0 3.0	17.0 18.0 35.0
•	SUBSOIL	GRASS SEEDED UNSEEDED TOTAL	0.0	4.5	0.0	0.5	1.5	0.0	2.0	1.0	1.0	0.0	0.0	0.0 0.0			102.0 102.0	2.0 0.0 2.0	10.5 103.5 114.8
	SUBSOIL SUBSOIL	GRASS SEEDED UNSEEDED TOTAL GRASS	0.5	À	0.0 &	1.5	5 0.0	0.0	4.5	0.5	1.0	0.0	0.0	0.0 0.0			47.5	1.5 0.0 1.5	10.0 47.5 57.5
UFFER	300301L	SEEDED UNSEEDED TOTAL	DRILL 0.0	0.5	I N 2.5	0.0	0.0	0.0	1.5	0.5	0.0	0.0	0.0	0.0 0.0			39.5	0.5 0.0 0.5	5.0 41.5 46.5
	TOTA	L S FOR	N			· <b></b>												<b></b>	
•	AVERAGI	SEEDED UNSEEDED TOTAL	3.5 N	18.0	7.5	5.0	7.0	0.0	19.0	5.0	5.5	0.5	0.0				282.0	0.0	71.0 286.5 357.5
•	STANDAR	SEEDED UNSEEDED TOTAL	0.6	3.0	1.3	0.8	1.2	0.0	3.2	0.8	0.9	0.1					47.0	0.0	11.8 47.8 59.6
•	עורדעו פיין ני	SEEDED UNSEEDED TOTAL	0.5		1.0	0.6	1.0	0.0	1.5	0.6	0.7	0.2	0.0			0.6	26.2	0.0	3.9 26.6 25.4
LOWER	SUBSOIL	GRASS SEEDED UNSEEDED	0.0					0.0	6.5	1.5	0.5	6.5	0.0		0.5	0.0	36.5	0.0	
LOWER	SUBSOIL	TOTAL GRASS SEEDED UNSEEDED TOTAL	1.0	1.5	/ N 2.0	3.0	2 4.0	0.0	5.0	1.0	0.5	0.0	0.0	0.0	0.0	16.5	47.0	1.5	55.5 18.0 48.0 66.0

SOIL	SEED MIX	METH		T WAT!	EST						JW.			AN.				
•		AGDA	AGIN	A6INE	A6SM	AGTRI	ELCI	ORHY	MESA	MEOF	GRASS	TREE	SHRUB	GRASS	<b>GRA</b> SS	FORB	FORB	TOTAL
LOWER SUBSOIL	GRASS SEEDED UNSEEDED TOTAL	DRILL 0.9		0.5		3 1.0	0.0	10.5	0.5	1.0	8.0		0.0	1.5		38.0	1.5 0.0 1.5	17.5 40.6 57.5
UPPER SUBSOIL	GRASS SEEDED UNSEEDED TOTAL	0.0	1.0		0.0	0.0	8.0	3.5	2.5	1.0	0.0		0.0	0.5	5.0 1.5			9.5 71.5 80.0
•	GRASS SEEDED UNSEEDED TOTAL GRASS	0.0	1.5	0.8	0.0	1.0	0.0	4.5	1.0	1.5	0.0	0.0 0.0		0.0 0.8		47.0 47.0		9.5 48.5 58.0
•	SEEDED UNSEEDED TOTAL	0.0					0.0	1.0	2.5	1.5	0.0	0.0	0.0 0.0		0.5	65.0 65.0	0.0	6.0 66.5 72.5
TOTA	SEEDED UNSEEDED TOTAL		9.0	4.5	3.0	8.0	0.0	31.0	9.0	6.0	6.5	0.0	0.0	3.5	5.0	303.0 303.0	0.0	311.5
	SEEDED UNSEEDED TOTAL ) DEV. Y	0.2	1.5	0.8	0.5	1.3	0.0	5.2	1.5	1.0	1.1		0.0	0.6	0.8	50.5 50.5	0.0	51.9
	SEEDED UNSEEDED TOTAL	0.4	1.2	0.6	1.1						2.4	0.0 0.0	0.0 0.0	0.5 0.5	9.6 5.8	12.6	1.0	12.8 8.9
•						GRA	N D	TOT	ALS			<b>-</b>						
	SEEDED UNSEEDED TOTAL	4.5	27.0					50.0					0.0	5.5		585.0 585.0	25.5 0.0 25.5	598.0
	SEEDED UNSEEDED TOTAL	0.4	2.3	1.0	0.7	1.3	0.0	4.2	1.2	1.0	0.6		0.0	0.5 0.5	10.3 0.6 10.9		2.1 0.0 2.1	12.4 49.8 62.3
	SEEDED UNSEEDED TOTAL	0.5	1.6	0.9				ARD DE				0.0	0.0	0.5		20.7	1.2 0.0 1.2	4.6 21.0 19.2
				<b>-</b>	- <b></b>													

	MATER FERT RE HARVEST	P	! I T U ! V A R	! A T % ! ! L O S ! ! I T U !	A T X L O S I T U V A R	! A T % ! L O S ! I T U !! V A R	! A T %!!! L O S!!! T U!!!! V A R!	A L I	TAL T X O S T U A R L V
LOWER SUBSOIL	BASIN NO F 1	T (CH)					1 3 33.3	9	15 60.0
LOWER SUBSOIL	BASIN NO F 2		3 3 100.0	1 3 33.3		3 3 100.0		12	15 80.0
LOWER SUBSOIL	BASIN NO F 3		3 3 100.0	2 3 66.7	2 3 66.7	1 3 33.3		11	15 73.3
UPPER SUBSOIL	BASIN NO F 4		46.0 3 3 100.0	3 3 100.0	9.0 3 3 100.0	3 3 100.9		14	15 93.3
UPPER SUBSOIL	BASIN NO F 5		3 3 100.0	3 3 100.0	3 3 100.0	12.7 2 3 66.7	3 3 100.0	14	15 93.3
UPPER SUBSOIL	BASIN NO F 6		43.3 3 3 100.0 36.7	16.7 3 3 100.0 15.7	1 3 33.3	14.5 3 3 100.0 14.3	3 3 100.0	13	15 86.7
TOTAL								<b></b>	
AVERAGE	MEIUN	((11)	255.7	89.2	46.3	79.5	15 18 500.0 94.6	73 9	70 486.6
STANDARD			3 3 94.5	3 3 83.3	2 3 41 1	3 3 93 3	2 2 02 2	12 1	5 81.1
			0 0 12.4	1 0 25.5	1 0 35.6	1 0 25.5 1.3	1 0 25.5	2	0 11.8
	HETCHT	1044	0 3 0.0	3 3 100.0 19.0		2 3 66.7 10.0	0 3 0.0	5 1	5 33.3
LOWER SUBSCIL	BASIN FERT 2	1.504.15	3 3 100.0	2 3 66.7	2 3 66.7	3 3 100.0	3 3 100.0	13 1	5 86.7
LOWER SUBSOIL	BASIN FERT 3 HEIGHT		3 3 100.0	3 3 100.0	0 3 0.0	13.0	2 3 66.7	10 1	5 66.7
	BASIN FERT 4	/8415	3 3 100.0	16.3 3 3 100.0 19.3	0 3 0.0	12.0	2 3 66.7	10 1	5 66.7
UPPER SUBSOTI	PASIN FERT 5		2 2 100 0	2 2 160 0	0 6 0 0	16.5 3 3 100.0		10 1	5 66.7
UPPER SUBSOIL	BASIN FERT 6 HEIGHT	(CM)	3 3 100.0 42.3	3 3 100.0 17.7	1 3 33.3 7.0	11.3 3 3 100.0 17.3	11.0 3 3 100.0 13.7	13 1	5 86.7
TOTAL:	S FOR FERT -		15 18 500.0	17 18 566.7	3 18 100.0		11 19 244 7		
AVERAGE I	HEIDHI FERT	(UM) 	21.7.2	120.3	17.0	80.1	79.4		
● 	HEIGHT DEV. FERT	(CM)	3 3 83.3 36.2 	3 3 94.5 20.1	1 3 16.7 2.8	3 3 83.3 13.3	. <b></b> .		
· · · · · · · · · · · · · · · · · · ·			1 0 37.3	0 0 12.4 3.0	1 0 25.5	1 0 16.6	1 8 35 4	3 0	17.8

SOIL		WATER	R FERT REP	!		rfr		ł.	ARN				:BK	)	!		iusc	; !		ROU	10	į		TOT	AL	
•		HARVES	<b>ा</b>				%											% !						•	T	X.
					Ļ																			. 1		S
					1																					
							R					V						R				R ! V !				
					Ε.	•	V	: 5	L	. •	:	E	L	٧	:	2	L		2	L		<b>v</b> :	r	. 1	L	٧
	TOTAL	. S F0f																			-				-	
			NE I GUT	(00)	32 472 0	36	<b>₽</b> 66.7	32	36	<del>≖6</del> 6	.7	14	36	466.	7 3		36	¥00.1	26	36	86	6.7	134	18	0 8	393.4
	AVERAGE	FOR	HEIGHT Basin -		۱/۲۰/ 				.J 				, 			17 . ( . –	, 		1/7	.V 	_				_	
					3	3	88.9	3	3	88	.9	1	3	38.	9	3	3	83.3	2	3	7	2.2	11	1	5	74.5
	CTANDADD.	801	HEIGHT	(DH)	39.4			17	.5			5.3			1	3.3	}		14.	.5						
•	Standard	DEV.															٠ -							- :	 ^	
			HEIGHT	(ON)	12.2	U	20.3	3	U A	20	.5	1 4 7	ָ י	30.	1	1 2 1	U	21.5	1 5	4	5	2.9	4	1	U	16.5
																	· -			-						
i nuco	SUBSOIL	EI AT	NO. C. I		•	•			_		_		•		_	_									_	
LUMEK	PODDUIL	PLAI	NO F 1 HEIGHT											66.				100.0				U.9	13	1	5	86.7
DWER	SUBSOIL		NO F 2	1417	3	3 1	00.0	3	.J 3	180	_A							100.0				Λ.Α	14	11	5	93.3
			HEIGHT									8.5										• • •	• '	• `	•	,010
LOWER	SUBSOIL	FLAT	NO F 3		3									66.		3	3	100.0	3	3	10	0.0	14	1	5	93.3
HODES	OURSOT!		HEIGHT																24							
UPPEK	SUBSOIL	FLAI	NO F 4		3									100.					3		10	0.0	15	1	5 1	00.0
PPFR	SUBSOIL	FI AT	HEIGHT NO F 5		33.0									11				66.7			10	n n		4.5	-	0/ 2
			HEIGHT				100.0											00.7			10	0.0	13	1.	3	86.7
UPPER	SUBSOIL	FLAT	NO F 6		3	3 1	00.0	2	3	66	.7	3						100.0			3	3.3	12	15	5	80.0
			HEIGHT	(CM)	39.0			12	.5																	
	TOTAL	S FOR	NO F				<b></b> .																			
		0 . 0			18														16	18	53	3.3	81	91	5	i40.0
			HEIGHT	(CM)	251.3			85	.0		•	45.4	-		7	9,4			92.	3		•••	•••	,		1010
	AVERAGE	FOR	NO F														-									. <b>-</b> -
			BETEIR	7.0MS	3	3 1	00.0	3	3	88	.9	2	3	77.8	3	3	3	94.5	3	. 3	8	8.9	14	15	5	90.0
	STANDARD	DEU.	HEIGHT	(un)	41.9			14.	.2			7.6	_		1	3.2			15.	4 -	_				_	
	0 11 5 12 1 1 1 1	<i>V</i> . <i>V</i> .	,,		0				n	15	.7	0	Ŋ	15.7	,	n	0	12.4	1		2	49	1		7	Α Δ
			HEIGHT	(M)	4.5	•	***	2	.4		• •	0.9	٠	1011		1.9		1417	3.	4	_	7.,	•		•	5.7
																	-									· <b>-</b> -
LOWER	SUBSOIL	FLAT	FERT 1		3	3 1	00.0	2	3	66	.7	1	3	33.1	3	2	3	66.7	. 2	3	<u>ፈ</u>	6.7	18	15	5	66.7
_			HEIGHT	(DM)	42.3			19.	.0			10.0			1	2.0			12.	5						
<b>E</b> DWER	SUBSOIL	FLAT	FERT 2 HEIGHT		3	3 1	00.0	3	3	100	.0	2	3	66.7	?	3	3	100.0	3	3	10	0.0	14	15	5	93.3
MUCD	CHECOTI	CI AT	HEIGHT	(DM)	48.0			15.	.0		_	9.5			1	4.0	_		17.	7						
LUWER	SUBSOIL	rLAI	FERT 3 HEIGHT	7090	3 44 n	3 1	U.U	2	. 3 a	66.	./	3		100.0				100.0					14	15	)	93.3
UPPER	SUBSOIL	FLAT	FERT 4	V 9/17	3	3 1	00.0	13.	۱۹	44	.7	7.7				2.3 ?	3	100.0	18.	3	2	3.2	10	įs	5	44.7
_			HEIGHT	(CH)	43.3	- 1		20.	.0	00	• •	10.0						100.0	12.		. تي	<i></i>	10	1.0	•	00.7
PPER	SUBSOIL	FLAT	FERT 5		3	3 1	00.0	2	3	66.	.7	0									6	6.7	10	15	5	66.7
			HEIGHT	(M)	43.3			24,	5			0.0				8.7			22.	Û						
UPPER	SUBSOIL		FERT 6		3	3 1	00.0	3	3	100	.0	3	3	190.0	1	2	3	66.7	2	3	6	6.7	13	15	5	86.7
			HEIGHT	(LM)	44.7			25.	0			5.7			1	2.5			12.	5						

	TER FERT REP				1			10	ţ	i	CEM	3	!	JUS	C	<u> </u>	ROW	0	!	T	OTAL	_
HAR	VEST		A	Ţ	%	! A	1	<b>"</b>	!	A	T	X	! A	1	<b>%</b>	! A	T	%	!	A	T	%
		!	L	0	S	! L	. 0	S	į	L	0	S	! !	. 0	S	! L	. 0	S	i	L	0	S
			I	T	U	! 1	1	U	į	I	T	U	! 1	T	U	! 1	T	U	!			
		!	V	A	R	! V	A	R	!	V	A	R	! V	A	R	! V	A	R	!			R
			E	L	V	! E	L	. V	į	E	L	V	! E	L	V	! E	L	V	!	E	L	V
TOTALS																				-		
AVERAGE FO	HEIGHT	(OH)	18 267.6	18 6	609.0	14 116	.5	466.	8	10 44.5	18 9	333.3	16 72	. 18 . 2	533.4	13 95	18 .0	433.4	ì	71	90	473.4
	KEIGHT	(DH)	3 44.	3	100.0	2 19	3 .4	77.	8	2 7.	3 5	55.6	3 12	.0	88.9	2 15	. 3 .8	72.2	!	12	15	78.9
STANDARD DE	V. FERI		0	0	0.0			15.	7	· 1		36.9		 0	· 15.7	 1	 0	22.9	. = = .	2	0	12.4
TOTALS			36	36	*00.0	30	36	¥00.	2	24	36	800.1	33	36	±00.1	29	36		1	- 52	 180	±13.4
STANDARD DE			3	3	100.0	3	3	83.	4	2	3	66.7	3	3	91.7	2	3	80.6		13	15	84.5
SINNUME OF	#EIGHT		0	0	0.0	1	n	16.	4	1	Ω	30 4	n	រា	14 4	1	n	25 2		2	0	11.3
•																						
	HEIGHT	(CH)	68 991.8 	/Z } 	*66./	62 411 R E P	.0 .0 R	*66. T	y A t	38 153.a J F R	72 6 8	*66.8	63 311 	.2 .2 	*00.2	55 361	72 .3 	*33.4		36		
			3	- 3	74.4	- 3	- 3	86.	1	- 2	- 3	52.8	- 3	- 3	87.5	2	- 3	76.4	1	12	15	79.5
					K	ואטאו	SIA	NUARD	DE <sub>1</sub>	VIAT)	10N-		<b></b>							-	<b>-</b> -	
<b>Q</b>	HEIGHT	(LAT)	9.7	•		4	. 13			4.1	1		2	Ω		A	.6	29.6		2	0	15.0

LOWER OVERBURDEN   GRASS   DRILL   N   N   1   31.1   38.8   1.3   28.8   8.8   8.0   8.8   8.0   0.4   3.9	●S01L		SEED MIX	SEED METHOD		WATER HARVEST	REPS	BARE Ground X			VEGETATION X						FORB
			GRASS GRASS	DRILL DRILL	N	N N	1 2										
29.9 50.0 0.7 19.4 0.0 0.0 0.0 1.5 8.1  1.2 11.3 0.7 9.4 0.0 0.0 0.0 1.5 8.1  LOMER OVERBURDEN GRASS DRILL Y N 1 28.4 37.5 0.3 33.8 0.0 0.0 0.0 0.0 0.1 4.5								59.8		1.3	38.8	9.0	0.6	0.8	2.9	16.2	19.7
1.2   11.3   0.7   9.4   6.0   0.0   0.0   0.1   1.4   4.2				, <b>v</b>				29.9	50.0	0.7	19.4	0.0	0.0	0.0	1.5	8.1	9.9
### PPER OVERBURDEN SHRUB BROADCAST Y N 1 40.5 44.5 0.0 15.0 0.0 7.3 0.0 0.0 0.0 0.0 0.1 4.5  #### PPER OVERBURDEN SHRUB BROADCAST Y N 1 40.5 44.5 0.0 15.0 0.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0								1.2						0.8	1.1	4.2	4.2
71.1 87.5 0.3 41.1 0.0 0.0 0.0 0.1 38.2		OVERBURDEN OVERBURDEN	GRASS GRASS	DRILL DRILL	Y Y	N N	1 2	28.4 42.7	37.5 50.0	8.3 0.0	33.8 7.3	8. <b>0</b>	0.0 0.0	0.0 0.0	0.0 0.1	33.7 4.5	0.1
	•	TOTAL	S FOR	Y													
		AVERAGE	FOR '	Y													
		Standard	DEV. Y					35.5	-43.8 	0.2 	20.5 	0.0	0.0	0.0	0.1	19.1	1.4
130.9 187.6 1.6 79.9 0.0 0.0 0.0 3.0 54.4 2 AVERAGE FOR DRILL - 32.7 46.9 0.4 20.0 0.0 0.0 0.0 0.0 0.8 13.6 STANDARD DEV. DRILL - 5.9 9.6 0.5 11.5 0.0 0.0 0.0 0.0 1.0 12.1 AVERAGE FOR GRASS - 130.9 187.6 1.6 79.9 0.0 0.0 0.0 0.0 3.0 54.4 2 STANDARD DEV. GRASS - 32.7 46.9 0.4 20.0 0.0 0.0 0.0 0.0 0.0 3.0 54.4 2 STANDARD DEV. GRASS - 5.9 9.6 0.5 11.5 0.0 0.0 0.0 0.0 0.0 12.1 11.1 11 UPPER OVERBURDEN SHRUB BROADCAST N N 1 27.7 48.8 0.5 23.0 0.0 0.0 0.0 1.2 0.1 11.1 11 UPPER OVERBURDEN SHRUB BROADCAST N N 2 47.9 43.8 0.0 8.3 0.0 1.6 0.0 0.2 5.6 T 0 T A L S FOR N STANDARD DEV. N STA	•	T O T A L	S FOR	DRILL				7.2 	6.3	0.2	13.3	0.0	0.0	0.0	0.1	14.6	1.3
32.7 46.9 0.4 20.0 0.0 0.0 0.0 0.0 0.8 13.6		AVERAGE	FOR	DRILL				130.9	187.6	1.6	79.9	0.0	0.0	0.0	3.0	54.4	22.5
5.9 9.6 0.5 11.5 0.0 0.0 0.0 1.0 12.1								32.7	46.9		20.0	0.0	0.0	0.0	0.8	13.6	5.6
130.9 197.6 1.6 79.9 0.0 0.0 0.0 3.0 54.4 2  AVERAGE FOR GRASS		_						5.9	9.6	0.5	11.5	0.0	0.0	0.0	1.0	12.1	5.2
32.7 46.9 0.4 20.0 0.0 0.0 0.0 0.0 0.8 13.6  5.9 9.6 0.5 11.5 0.0 0.0 0.0 0.0 1.0 12.1  LOWER OVERBURDEN SHRUB BROADCAST N N 1 27.7 48.8 0.5 23.0 0.0 0.0 1.2 0.1 11.1 1 UPPER OVERBURDEN SHRUB BROADCAST N N 2 47.9 43.8 0.0 8.3 0.0 1.6 0.0 0.2 5.6  T 0 T A L S FOR N								130.9	187.6	1.6			0.0	0.0	3.0	54.4	22.5
5.9 9.6 0.5 11.5 0.0 0.0 0.0 1.0 12.1  LOWER OVERBURDEN SHRUB BROADCAST N N 1 27.7 48.8 0.5 23.0 0.0 0.0 1.2 0.1 11.1 1  UPPER OVERBURDEN SHRUB BROADCAST N N 2 47.9 43.8 0.0 8.3 0.0 1.6 0.0 0.2 5.6 T 0 T A L S FOR N		AVERAGE	FOR (	GRASS							20.0	 0.0	0.0	0.0	0.8	13.6	5.6
LOWER OVERBURDEN SHRUB BROADCAST N N 1 27.7 48.8 0.5 23.0 0.0 0.0 0.0 1.2 0.1 11.1 1 UPPER OVERBURDEN SHRUB BROADCAST N N 2 47.9 43.8 0.0 8.3 0.0 1.6 0.0 0.2 5.6 T 0 T A L S FOR N AVERAGE FOR N 37.8 46.3 0.3 15.7 0.0 0.8 0.6 0.2 8.4 STANDARD DEV. N 10.1 2.5 0.3 7.4 0.0 0.8 0.6 0.1 2.8 STANDARD SHRUB BROADCAST Y N 1 40.5 44.5 0.0 15.0 0.0 3.2 0.0 0.0 9.8		Standard	DEV. GI	RASS			·										
UPPER OVERBURDEN SHRUB BROADCAST N N 2 47.9 43.8 0.0 8.3 0.0 1.6 0.0 0.2 5.6 T O T A L S FOR N	•								, 7.0 		11.5						
75.6 92.6 0.5 31.3 0.0 1.6 1.2 0.3 16.7 1 AVERAGE FOR N 37.8 46.3 0.3 15.7 0.0 0.8 0.6 0.2 8.4 STANDARD DEV. N 10.1 2.5 0.3 7.4 0.0 0.8 0.6 0.1 2.8  LOWER OVERBURDEN SHRUB BROADCAST Y N 1 40.5 44.5 0.0 15.0 0.0 3.2 0.0 0.0 9.8	LOWER Upper	OVERBURDEN OVERBURDEN	SHRUB SHRUB	BROADCAST BROADCAST	N N	N N	i 2	27.7 47.9	48.8 43.8	0.5 0.0	23.0 8.3	0.0	0.0 1.6	1.2	0.1 0.2	11.1 5.6	10.6 0.9
37.8 46.3 0.3 15.7 0.0 0.8 0.6 0.2 8.4 STANDARD DEV. N 10.1 2.5 0.3 7.4 0.0 0.8 0.6 0.1 2.8  LOWER OVERBURDEN SHRUB BROADCAST Y N 1 40.5 44.5 0.0 15.0 0.0 3.2 0.0 0.0 9.8	•	TOTAL	S FOR N	(				75 4	 92 4 ·		21 2					 14 7	
10.1 2.5 0.3 7.4 0.0 0.8 0.6 0.1 2.8  LOWER OVERBURDEN SHRUB BROADCAST Y N 1 40.5 44.5 0.0 15.0 0.0 3.2 0.0 0.0 9.8		AVERAGE I	FOR N	ł													
LOWER OVERBURDEN SHRUB BROADCAST Y N 1 40.5 44.5 0.0 15.0 0.0 3.2 0.0 0.0 9.8		STANDARD (	DEV. N			- '											
LOWER OVERBURDEN SHRUB BROADCAST Y N 1 40.5 44.5 0.0 15.0 0.0 3.2 0.0 0.0 9.8	•							10.1	2.5 	0.3 	7.4	0.0	0.8	0.6	0.1	2.8	4.9
UPPER OVERBURDEN SHRUB BROADCAST Y N 2 44.5 45.0 0.0 10.5 0.0 1.5 0.0 0.2 8.1	LOWER UPPER	OVERBURDEN OVERBURDEN	SHRUB SHRUB	BROADCAST BROADCAST	Y Y	N N	1 2	40.5 44.5	44.5 45.0	0.0 0.0	15.0 10.5	0.0 0.0	3.2 1.5	0.0	0.0 0.2	9.8 8.1	2.0 0.7

301L	SEED MIX	SEED Method		WATER HARVEST	REPS	Bare Ground %	ROCK %	LITTER V	VEGETATION %	TREE %	SHRUB %	ANN. GRASS %	PER. GRASS %	ANN. FORB %	PER. FORB X
TOTAL						85.8	 89.5	0.0	 25.5	0.0	4.7	0.9	0.2	17.9	2.7
• AVERAGE						42.5	44.8	0.0	12.8	0.0	2.4	0.0	0.1	9.0	1.4
Standard						2.0	0.3	8.0	2.3	0.0	0.9	0.0	9.1	0.9	8.7
TOTAL	S FOR					160.6	182.1	0.5	56.8	0.0	6.3	1.2	0.5	34.6	14.2
• AVERAGE		BROADCAST				40.2	45.5	0.1	14.2	0.0	1.6	0.3	0.1	8.7	3.5
STANDARD	DEV.	Broadcast -	· <b></b> ·			7.7	1.9	0.2	5.6	0.0	1.1	0.5	0.1	2.1	4.1
UPPER OVERBURDEN		DRILL	N	N N		34.7	52.5	0.0		0.0	0.6	0.0	8.3	11.7	
TOTAL						56.9									19.5
AVERAGE		N					50.7	0.8	20.1	0.0	0.3	0.0	0.2	9.9	9.8
STANDARD	DEV.	N <b></b>				6.3	1.9	0.8	7.4	0.0	0.3	0.0	0.1	1.8	9.6
JPPER OVERBURDEN		DRILL		N			55.0	0.0	14.8	0.0		0.0	0.0		
T8TAL						44.6			43.6					43.2	0.1
AVERAGE	FOR	Y							21.8		<b></b> -				
● STANDARD						7.9	0.7	0.3	7.0	0.0	0.0	0.0	0.2	7.1	0.1
T0TAL						101.5	 212.6	2.0	83.9	0.0	0.6	0.0	0.7	63.0	19.6
AVERAGE						25.4			21.0						
● STANDARD						7.8	2.9	0.6	7.2	0.0	0.3	0.0	0.1	7.8	8.3
TOTAL						262.1	 394.7	2.5	140.7	0.0	 6.9	1.2	1.2	97.6	33.8
AVERAGE						32.8	49.3	0.3	17.6	0.0	 6.9	0.2	9.2	12.2	4.2
STANDARD	DEV.	SHRUB				10.7	4,5	0.5	7.3	0.0	1.1	8.4	0.1	6.7	6.6
						-,	. <i></i> -		- <b></b> -	<b></b> •					

	1	2-	05	-	83
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#### OVERBURDEN

SOIL.	SEED MIX	SEED NETHOO	WATER HARVEST	Bare Ground %			VEGETATION %			ANN. GRASS X	GRASS		FORB
•				<b>393.</b> 0	582.3	4.1	220.6	0.0	6.9	1.2	4.2	152.8	54.3
				32.8	48.5	0.3	18.4	0.0	0.6	0.1	0.4	12.7	4.7
			 				9.0						

SOIL	SEED MIX	SEED METHOD	FERT	WATER HARVEST	REPS	Bare Ground X			VEGETATION %		SHRUB %	ANN. GRASS %		ANN. Forb %	
LOWER OVERBURDEN  OWER OVERBURDEN  LOWER OVERBURDEN  LOWER OVERBURDEN	GRASS GRASS GRASS GRASS	BROADCAST BROADCAST BROADCAST BROADCAST	N	N N N	1 2 3 4		70.0 42.5 62.5 55.0	0.0 0.0 0.5 0.5	2.0 2.5	0.0 0.8	0.0 0.0	0.0 0.8	0. <b>0</b>	2.0 1.7 1.6 4.5	0.3 6.9
TOTAL	S FOR 1	N	· <b></b>				220.0		11.0						
● AVERAGE	FOR !	4									· <b></b> -		· <b></b> -		
STANDARD	DEV. N				· <b>-</b>	39.5	57.5	0.3	2.8	0.0	0.0	0.0	0.0	2.5	0.3
					· <b></b> -	10.2	10.2	0.3	1.0	0.0	0.0	0.0	0.0	1.2	0.4
	GRASS GRASS	BROADCAST	N	Y Y Y Y		67.5	5.0 20.0 7.5 0.0	0.0	22.5 12.0 9.5 14.5	0.0	0.3	0.0 0.0	3.7 0.3	0.2 2.6 3.6 2.9	5.4 5.4
TOTAL	S FOR Y	'													
AVERAGE	FOR Y	'				308.0	32.5 	1.0	58.5 	4.0 	2.6	0.0	6.9	9.3	35.7
STANDARD	EV. Y					77.0	8.1	0.3	14.6	1.0	0.7	0.0	1.7	2.3	8.9
TOTALS						7 5	7 4	0.3	4.9		0.6	0.0	1.3	1.3	5.5
• AVERAGE F		RASS				466.0	262.5		69.5	4.0	2.6	0.0	6.9	19.1	36.9
						58.3	37 B	0.3	8.7	0.5	0.3	0.0	0.9	2.4	4.6
STANDARD D						20.8	26.2		 6.9		- <b>-</b> -	. <i>-</i>	• <b></b> •		
•											· <b></b> -		·		
LOWER OVERBURDEN	SHRUB	BROADCAST BROADCAST BROADCAST	N	N N N	1 2 3	39.5 23.0 33.5	55.0 75.0 65.0	0.0 0.5 0.0	5.5 1.5 1.5	• • •	0.0	0.0	0.0	5.5 0.8	0.7
		BROADCAST				58.0	35.0	8.0		0.0 0.0	$0.0 \\ 0.0$	$0.0 \\ 0.0$	0.0 0.2	1.5 6.8	
TOTALS	FOR N				·										
AVERAGE F	OR N				. <b></b> .	154.0	230.0	0.5	15.5	0.0	0.0	0.0	0.2	14.6	0.7
STANDARD D	EV. N					38.5	57.5	0.1	3.9	0.0	0.0	0.0	0.1	3.7	3.2
							14.8	0.2	2.4	0.0	0.0	0.0	0.1	2.6	0.3
LOWER OVERBURDEN	SHRUB E	ROADCAST	N	v	•	00.0									
LOWER OVERBURDEN	SHRUB E	ROADCAST	N	γ	2	88.0 93.5	7.5 0.0	0.0 0.0	4.5 6.5		0.8 2.5	0.0 0.0	0.6		0.2 1.1
LOWER OVERBURDEN	SHRUB E	IROADCAST IROADCAST	N	Y Y	3 4	67.0 91.5	17.5 2.5		15.5 6.0	0.0		0.0	1.2		0.0
•									· · · · · · · · · · · · · · · · · · ·				v.0		

S01L ●	SEED MIX	SEED NETHOO		Water Harvest	REPS	BARE GROUND %	ROCK 2	LITTER Z	VEGETATION %	TREE %	SHRUB %	ANN. GRASS %	PER. GRASS %	ANN. FORB %	PER. FORB %
TOTAL						340.0	27.5	8.8	32.5	0.8	5.6	0.3	2.7	20.0	3.1
AVERAGE	. •••	Y				85.0	6.9	0.8	8.1	8.2	1.4	 8.1	8.7	5.0	0.8
Standard						10.6	6.7	0.0	4.3	0.3	0.7	0.1	 0.3	5.0	 0.7
TOTAL					3	494.0	257.5	0.5	48.0	0.8	 5.6	 0.3	2.9	34.6	3.8
AVERAGE	FOR	SHRUB							6.0						
STANDARD	DEV. 9	SHRUB				26.0			4.1						
TOTAL	S FOR	LOWER OVERB	URDEN						117.5						
AVERAGE I	FOR	LOWER OVERB	URDEN			60.0			7.3						
STANDARD I	DEV. L	OWER OVERBU	RDEN												
						23.6	27.0	0.2 	5.8	0.7	0.7	0.1	1.0	3.1	4.6
PUPPER OVERBURDEN		BROADCAST BROADCAST	Y	N	2	7			15.0 13.5					7.9 11.3	
TOTAL						81.5	89.5	0.5	28.5	0.0	0.0	0.0	2.2	19.2	7.1
AVERAGE I		N				40.8	44,8		14.3			. <b>-</b>			
STANDARD I	DEV. N	<b></b> -	<b></b>			6.8			0.8						
UPPER OVERBURDEN UPPER OVERBURDEN		BROADCAST BROADCAST				63.5 59.5		0.0 1.5	6.5 14.0	0.0	0.3	0.0	0.3	3.9 0.8	2.0 12.8
TOTALS	6 FOR	Y							20.5				 0 4		14.0
AVERAGE F	FOR	Y							10.3						
STANDARD	EV. Y		. <b>.</b> .												
TOTALS	FOR	GRASS							3.8						
AVERAGE F	OR	GRASS							49.0						
STANDARD D	EV. G	RASS							12.3					· ·	
	. <i>-</i>					11.5	10.4 	0.6 	3.4	0.0	0.1	0.0	0.9	4.0	5.9
UPPER OVERBURDEN UPPER OVERBURDEN	SHKUB	BRUADCAST	Y	N	2	33.5	57.5	0.0	13.0	0.0	0.0	0.0	0.2	10.5 8.8	2.3 0.2

SOIL	SEED MIX	SEED Methoo		Water Harvest		BARE GROUND X			VEGETATION %	TREE %	SHRUB %		PER. GRASS %	ANN. FORB %	PER. FORB
TOTAL	S FOR	N						 0 n	22.0		 0. <b>a</b>				25
AVERAGE	FOR I	N				32.8									
Standard	DEV. N								11.0						
				· <b>-</b>	- <b></b> -	0.8 	1.3	0.0	2.0	0.0	0.0	0.0	0.1	0.9	1.1
·	SHRUB SHRUB	BROADCAST BROADCAST	Y Y	Y Y	i 2	28.5 70.0	52.5 10.0		19.0 20.0				0.5 9.4		
TOTALS	S FOR '	Y										. <b></b> .			
AVERAGE F	FOR Y	1							39.0 		<b>-</b>				
STANDARD D	DEV. Y				· <b>-</b>	49.3	31.3	0.0	19.5	0.0	0.9	0.0	0.5	14.2	4.0
TOTAL 9	S FOR S	SHRUB				20.8	21.3	0.0	0.5	0.0	0.9	0.0	0.1	2.5	2.2
AVERAGE F		SHRUB				164.0	175.0	0.0	61.0	0.0	1.7	0.0	1.1	47.6	10.6
STANDARD D						41.0	43.8	0.0	15.3	0.0	0.4	0.0	0.3	11.9	2.7
						14.8	19.6	0.0	4.5	0.0	0.7	0.0	0.2	 2.9	2.2
TOTALS						368.5			110.0				<b>-</b>	·	
AVERAGE F															
STANDARD D	EV. UP	PER OVERBU	RDEN -						13.8					<b>-</b>	
						15.3	16.1	0.5 	4.2	0.0	0.6	0.0	0.7	4.6	4.1
										. <b></b> .			<b></b>		• = = =
						¥29 5	020 5	15	227.5	4.0	10 0				70.0
			· <b>-</b> -		- R E	PORT	AVE	R					. <b>-</b>		
					*50	55 /	25.0	ብ ኃ	0 5	0.2	0.4	0.0	0.6	5.2	3.0
						22.2	24.2	0.3	6.1	0.6	0.7	0.1	0.9	4.5	4.5

		ARTAIF	М	EED IX	SEED METH		HARV		_					JW.			ANN.	PER.	ANN.	PER.	
			UKHY	ASU.	I LILE	SPMU	ARTR	ATCA	CELA	CEMO	CHNA	KOPR	PUTR	6RASS	TREE	SHRUB	GRASS	GRASS	FORB	FORB	TOTAL
	iver overe Seeded Unseeded Total				8ROADCA 0.0				0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	65.5 65.5	1.0	2.5 66.5 69.0
	PER OVERS SEEDED UNSEEDED TOTAL				BROADCA 0.6				2 2.0	0.0	0.0	0.5	0.0	0.0		2.5 0.0		6.0 0.0	24.5	1.5	10.0 25.0
	T	0 T A	LSF	FOR N	l																
. 1	SEEDED UNSEEDED TOTAL				0.0	0.5	0.0	0.0	2.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	7.5 0.0 7.5	90.0	1.5	12.5 91.5 104.0
9 1	SEEDED UNSEEDED TOTAL	0.3	3.5	1.0	0.0					0.0	0.0	0.3	0.0	0.0	0.0		0.0		45.0 45.0		45.8
	s																<b></b> -				
U	seeded Unseeded Total	0.3	2.5	• •.0	0.0	0.3	0.0	0.0	1.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	20.5 20.5	0.3	
l Old	IER OVERBL	וסטבות	eur	ו מונם	DDOADCA	<b>⊶</b> ∨	A.														
S u		1.0			0.0			0.0		0.0	0.0	0.0	0.0	0.0	0.0	1.0 0.0 1.0	0.0	0.0	34.5 34.5		35.5
	PER OVERBU BEEDED	IRDEN 1.0			BROADCAS 0.0		N n n			6.0	0.0	0.0		• •							42.0
U	NSEEDED OTAL	•••	2.0		0.0	V.U .	0.0	v.v	1.0	υ.υ	0.0	υ.υ	U.U	V.V	0.0		0.0	0.0	23.5 23.5	2.0	5.5 25.5 31.0
)	T	OTAI	L S FO	OR Y									· <del>-</del>			- <b></b> -		- <b>-</b> -			
T(	EEDED NSEEDED OTAL							0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.0 58.0	3.0	61.8
	A	VERAGE	FOR	Y																	
T(	EEDED NSEEDED OTAL STA														$0.0 \\ 0.0$	0.0 1.0	0.0	0.0	29.0 29.0	1.5	30.5
(B)	NSEEDED OTAL				0.0										0.0	0.0	0.0	0.0	5.5 5.5	0.5 9.3	0.5 5.8 5.5

SOIL 1			X I ASCI	SEED METH LILE	SPMU		EST		CEMO	CHNA	KOPR	PUTR	JUV. GRASS	TREE		ANN. GRASS			PER. FORB	TOTAL
SEEDED Unseeded Total	2.5	11.5	5.5	0.0	0.5	0.0		4.0	0.0	0.0	8.5	0.0	0.0	0.0		0.0	0.0	148.0 148.0	4.5	
SEEDED UNSEEDED TOTAL	0.6	2.9	1.4	ROADCAS 0.0	0.1	0.0	8.0			0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	37.0 37.0	1.1	
SEEDED UNSEEDED TOTAL				OADCAST 0.0						0.0	0.2	9.0	0.0	0.0	0.0	0.0	0.0	17.0 17.0	0.5	16.9
LOWER OVERB SEEDED UNSEEDED TOTAL	BURDEN 0.0			ORILL 0.0	0.0			-	9.0	0.0	0.0	0.0	0.0	8.0 0.0	0.0 0.0		6.0	46.0 46.0		
LOWER OVERB SEEDED UNSEEDED TOTAL	0.5	0.0	0.5	O.O	0.0			2 0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0 0.0	0.0	0.5 0.0	110.0 110.0	9.5 3.5	1.0
UPPER OVERB SEEDED UNSEEDED TOTAL	0.0	2.5	0.0	O.O		0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0 0.0	0.0 0.0	0.5	15.0 15.0		2.5 23.5 26.0
UPPER OVERB SEEDED UNSEEDED TOTAL	0.0			ORILL 0.0		0.0		0.5	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.5 0.0 0.5	0.0		18.0 18.0	0.5 0.0 0.5	9.0 18.0 27.0
7	OTA	L 3 F(	OR N								<b></b>									
SEEDED UNSEEDED TOTAL					0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.0	6.5	189.0 189.0	21.0	216.5
SEEDED UNSEEDED TOTAL	0.1	2.6	0.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0		0.0	0.0	0.0	1.6	47.3 47.3	5.3	54.1
SEEDED UNSEEDED TOTAL					0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	38.2 38.2	3.8	3.5 38.2 36.0

	SOIL		MI		SEED METH		T WAT HARV	EST						JW.			ANN.	PER.	AN.	PER.	
		AGINE	ORHY	ASC:	LILE	SPMU	ARTR	ATCA	CELA	CEMO	CHNA	KOPR	PUTR	GRASS	TREE	SHRUB	6RASS	GRASS	FORB	FOR8	TOTAL
•	LOWER OVER SEEDED UNSEEDED TOTAL	0.0		ASS 0.0	DRILL ) 0.0	0.0	0.0	0.0	1 8.9	0.0	0.8	8.0	8.8	0.8	0.0	0.0 0.0	8.0	0.0 0.0	16.0	0.0 0.0	0.0 16.0
	LOWER OVER	<b>B</b> URDEN	SH	RUB	DRILL	Y	N	1	2						0.0	0.0	9.0	0.0	16.0	0.0	16.0
•	SEEDED Unseeded Total				0.0	8.0	0.0	0.0	0.0	9.9	9.8	0.8	8.8	0.0	0.0 0.0	0.0 8.0	0.0 0.0	0.0 0.0 0.0	47.8 47.0	0.5 0.9 0.5	0.5 47.0 47.5
	UPPER OVER	BURDEN 0.0			DRILL 0.0	Y 0.0	0.0		3												
	UNSEEDED TOTAL					0.0	U.U	V.U	0.0	0.0	8.0	U.U	0.0	0.0	0.0 0.0	0.0 0.0 0.0	0.0 0.0	1.5 0.0 1.5	14.5 14.5	0.0 2.0 2.0	1.5 16.5 18.0
	UPPER OVER	BURDEN 0.0			DRILL 0.0	Y 0.0	0.0	0.0	4 0.0												
	UNSEEDED TOTAL		7.0	V.U	0.0	0.0	0.0	U.U	0.0	U.U	0.0	U.U	V.U	v.u	0.0 0.0	0.0 0.0 0.0	0.0 0.0	7.5 0.0 7.5	24.0	0.0 0.0 0.0	7.5 24.8 31.5
		TOTA	LSF	OR Y	·																
•	SEEDED UNSEEDED TOTAL		9.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0 0.0 0.0	0.0 0.0		101.5 101.5		9.5 103.5 113.0
		AVERAGI	E FOR	Y																<b></b> -	
•	SEEDED UNSEEDED TOTAL		2.3		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0 0.0	0.0 0.0	2.3 0.0 2.3	25.4 25.4	0.1 0.5 0.6	2.4 25.9 28.3
	9	STANDARL	) DEV.	. Y																	
•	SEEDED UNSEEDED TOTAL	0.0	3.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0 0.0	0.0 0.0	3.1 0.0 3.1	13.0 13.0	0.2 0.9 0.8	3.0 12.6 12.6
	7	TOTA	L S F(	DR D	RILL -																
	SEEDED UNSEEDED TOTAL	0.5	19.5	1.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5		23.0	320.0
		AVERAGE	FOR	D	RILL -		· <b>-</b>														
	SEEDED UNSEEDED TOTAL													0.0	0.9	0.0	0.0	0.8	36.3 36.3	2.9	40.0
	5	:ANDARD	DEV.	. DR	ill																
	SEEDED UNSEEDED TOTAL	0.2	3.2	€.2	0.0	0.0									0.0	0.0	0.0	2.0	30.5 30.4	3.6 3.5	31.7 30 A
	- <b></b>																				

12-15-83

## OVERBURDEN

## DENSITY (PLANTS/SQ. METER)

9	OIL		SE MI		EED Eth	FER	T WAT HAR	ER RE ÆST	PS					JW.			ANN.	PFR.	ANN.	PFR.	
		AGINE			LILE	SPMU		ATCA	CELA	CEMO	CHNA	KOPR	PUTR	6RASS	TREE			GRASS	FORB	FORB	TOTAL
•									- 6 R A	A N D	TOT	ALS		1.5% 1.		<b></b> .					
•	SEEDED UNSEEDED TOTAL		31.0	7.0	0.0									0.4	6.8 6.8	0.8	0.0	6.5		27.5	46.5 472.5 519.0
•	SEEDED UNSEEDED TOTAL	0.3	2.6	0.6	9.0		0.0	0.0	0.4	0.0		0.0	0.0	8.0	0.0	0.0	8.0	0.5	36.5 36.5	2.3	3.9 39.4 43.3
•	SEEDED UNSEEDED TOTAL	0.4	2.8	0.7	0.0	0.1					0.0			0.0	0.0		0.0	1.7	26.8 26.8	8.7 3.1 2.9	3.5 27.7 26.4

\_\_\_\_<u>.</u>

# OVERBURDEN (WATER HARV)

•	SOIL	AGINE		SEED MIX Y AS	ME	ED TH LILE		HAR	ier re Jest Atca		CEMO	CHNA	KOPR	PUTR	JUV. GRASS	TREE	SHRUB	ANN. GRASS	PER.	ANN. FORR	PER. Forb	TOTAL
,	LOWER OVER SEEDED UNSEEDED TOTAL		É		BR	DADCA	st n	l 1	ı	1				•	0.9	0.8	9.6 8.8		0. <b>8</b>	15.0	0.0	
•	LOWER OVER! SEEDED UNSEEDED TOTAL	BURDEN 0.0					ST N 0.0			2 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0 0.0	15.0 9.0	0.0 0.0	15.0 0.0 9.0
•	LOWER OVERE SEEDED UNSEEDED	BURDEN 2.0					ST N 0.0			3 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0		9.0	0.0	9.0 2.0 30.0
	TOTAL LOWER OVERE SEEDED UNSEEDED	URD <del>EN</del> 1.0				DADCA:				4	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.0	30.0	0.0	32.0
•	TOTAL	' П Т Д	<b>4</b> i C	EUD	N _											0.0 0.0	0.0 0.0	0.0 0.0	0.0	45.0 45.0	0.0	
	SEEDED Unseeded														0.0		0.0	0.0		99.0		5.0 99.0
•	TOTAL 	AVERA(	SE FO	R	N -		. <b></b> -	. <b>-</b>							<b></b> .	0.0	0.0	0.0		99.0		104.0
	SEEDED UNSEEDED TOTAL					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	24.8 24.8		
•	SEEDED UNSEEDED TOTAL					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0 0.0 0.0	0.0	1.3 0.0 1.3	14.0		1.3 14.0 15.2
•	OLICO OLICODI	IDACLI		in in																<b></b>		
	.OMER OVERBU SEEDED UNSEEDED TOTAL	1.0	9.0	1KUB 2.1	O :	aDCAS	T N 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0 0.0 10.0		2.0 0.0 2.0	12.0 18.0
L	.OWER OVERBU SEEDED	RDEN 1.0	Sł 7 n	IRUB 5 (	BRO	ADCAST	0.0	Υ	2	0.0						0:0		0.0		10.0	2.0	30.0
•	UNSEEDED TOTAL	•••						0.0	U.U	u.u	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0 0.0	0.0	8.0 0.0 8.0		5.0 0.0 5.0	13.0 12.0 25.0
Ļ	OWER OVERBU SEEDED UNSEEDED TOTAL		SH 13.0			DCAST		9.0	0.0		0.0	0.ŭ	0.0	0.0	0.0	0.0	0.0		13.0	16.0	0.0	13.0 16.0
<b>●</b>	OWER OVERBU	RDEN	SH	RUB	BROA	DCAST	N	Y	4							0.0	0.0	0.0	13.0	16.0	0.0	29.0
	SEEDED UNSEEDED TOTAL	4.0	23.0	7.0	) (	0.0			0.0		0.0	0.0	0.0	0.0	0.0	1.0	0.0 0.0 0.0	1.0	27.0 0.0 27.0		7.0 0.0 7.0	34.0 28.0 62.0
_								· <del>-</del>		- <b>-</b>												

SOIL				SEED METH	FE		TER RI Vest	EPS					7181							
		ORHY	ASCI	LILE		ARTR	ATCA		CEMO	CHNA	KOPR	PUTR	JUV. GRASS	TREE	SHRUB	ann. Grass	PER. GRASS	ANN. FORB	PER. Forb	TOTAL
SEEDED UNSEEDED TOTAL	•			0.0				6.0	9.0	0.0	9.0	0.0	0.0	1.0 1.0	9.8	1.0	0.0	72.0	0.0	72.0 74.0 146.0
SEEDED UNSEEDED TOTAL									0.0	0.0	0.0	0.0	0.0	0.3 0.3	0.0	0.3	0.0	18.0 18.0	0.0	18.5
													• • • •	·				·		
SEEDED UNSEEDED TOTAL												0.0	0.0		0.0	0.4 0.4			0.0	9.2 5.9 14.8
														· <b>-</b>						
SEEDED UNSEEDED TOTAL												0.0	0.0	1.0	0.0	1.0	0.0	171.0 171.0	0.0	173.0
	AVERAG	E FOR	LO	WER OV	ERBURD	EN														200.8
SEEDED UNSEEDED TOTAL											0.0	0.0	0.0	0.1 0.1	0.0 0.0 0.0	0.1	0.0	21.4	0.0	21.6
s	TANDARI	) DEV	. LOW	ER OVE	RBURDE	<b>V</b> ·						- <b>-</b> -				·	/.y 	21.4	1.8	31.3
SEEDED UNSEEDED TOTAL	1.3	7.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0 0.0	0.3		11.0 11.0		
HODED GUERN																				
UPPER OVERBI SEEDED UNSEEDED TOTAL	0.0	7.0	1.0	ROADCAS 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	7.0 0.0	24.0	1.0	8.0 26.0
UPPER OVERBL	URDEN	SHR	UB BR	loadcas	T Y	N	2							0.0	0.0		7.0		3.0	34.0
SEEDED UNSEEDED TOTAL	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0		40.0	0.0	2.0 40.0 42.0
1	0 T A I	L S FO	RN-																	
SEEDED UNSEEDED TOTAL						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0 0.0	0.0	0.0	64.0	3.0 2.0 5.0	66.0
• A	WERAGE	FOR	N -																	 
SEEDED UNSEEDED TOTAL	0.0	3.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0		32.0		5.0 33.0 38.0
		·			- <del>-</del>									0.0 						

# OVERBURDEN (WATER HARV)

SOIL	AGINE	M	X I	SEED METH LILE		TAN TS HARV ARTR	EST	-	CENO	CHNA	KOPR	PUTR	JUV. Grass	TREE	SHRUB	ann. Grass	PER. Grass	ANN. FORB	PER. Fores	TOTAL
	STANDAR	D DEV	). N		. <b></b> .			· <b></b> -	. <b></b> -	. <b></b> -				·					:	
SEEDED UNSEEDED TOTAL		3.5	<b>0.5</b>	0.0	0.0	0.9	8.0	8.0	0.0	0.0	0.8	9.9	0.6	0.0	0.8 0.0	0.0 0.8	3.5 9. <b>6</b> 3.5	8.8	0.5 1.0 8.5	3.8 7.8 4.9
upper over seeded unseeded total	0.0	17.0	3.0	BROADCA 0.0	0.0	0.0		1 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0			34.0 34.0	3.0 0.0 3.0	20.0 34.0 54.0
upper over seeded unseeded total	0.0			BROADCA 1.0				2.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0 0.0 3.0	0.0	8.0 0.0	20.0	2.0 2.0 4.0	13.0 22.0 35.0
	TOTA	LSF	OR Y																	
SEEDED UNSEEDED TOTAL				1.0	0.0	1.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0 0.0 3.0		25.0 0.0 25.0		5.0 2.0 7.0	56.0
SEEDED UNSEEDED TOTAL	0.0	12.5	2.0	0.5	0.0	0.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5 0.0 1.5				2.5 1.0 3.5	16.5 28.0 44.5
9	STANDARI	) DEV	. Y -																	
SEEDED UNSEEDED TOTAL				0.5							0.0	0.0	0.0	0.0	1.5 0.0 1.5	0.0	4.5 0.0 4.5	7.0 7.0	0.5 1.0 0.5	3.5 6.0 9.5
SEEDED UNSEEDED TOTAL									0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	118.0 118.0	4.0	
SEEDED UNSEEDED TOTAL	0.0	8.0	1.8	0.3	0.0	0.3	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.5 29.5	1.0	30.5
- <b></b> - 9																	<b>-</b>			
SEEDED UNSEEDED TOTAL	0.0	6.0	0.8	0.4	0.0	0.4		0.9					0.0	0.0	0.0	0.0	0.0	7.9	0.7 1.0 0.7	6.6 7.0 8.0

12-05-83

# OVERBURDEN (WATER HARV)

	SOIL		M	IX	SEED METH	FEI		TER RI Vest	EPS					JW.			AN.	nen	ANDE	S.P.D.		
)		AGINE	ORHY	ASCI	LILE	SPMU	ARTR	ATCA	CELA	CEMO	CHNA	KOPR	PUTR	GRASS	TREE	SHRUB	GRASS	GRASS	FORB	PER. Forb	-	
									- 6 R A	ND	TOT	ALS								: · = + +		
•	SEEDED Unseeded	9.0	86.0	21.9	1.0	0.0	1.0	8.8	2.0	9.8	8.8	0.0	0.0	0.0						22.8	120.0	
	TOTAL															0. <b>8</b> 3.0			289.0		295.0 415.0	
									REP	0 R T	A	VER.		·			·			20.0	413.8	
	SEEDED Unseeded	8.0	7.2	1.8	0.1	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0		0.3		7.9		1.8	10.0	
	TOTAL														0.1				24.1	0.3		
					<b></b> -				REPORT	STAND	ard dev	VIATION	<del>-</del>		0.1	0.3	0.1	/.9 	24.1	2.2	34.6	
	SEEDED	1 2	7 2	2.2																		
	UNSEEDED	1.2	1.2	2.2	0.3	U.U	U.3	0.0	0.6	0.0	0.0	0.0	0.0	0.0		0.8				2.2	9.5	
•	TOTAL														0.3 0.3	0.0 0.8	0.3 0.3	0.0 7.8	10.8 10.8	0.7 2.2	10.8 14.6	

#### OVERBURDEN

SOIL	SEED MIX	SEED METH AGDA		tt wat Harl Agine	ÆST		ELCI	ORHY	MESA	MEOF	JUV. GRASS	TREF	SHRIJR	ANN.	PER.	ANN.	PER. FORS	
LOWER OVERBURDEN	GRASS SEEDED UNSEEDED TOTAL	1.5	N	i h	ı	1					9.6	0.0	0.8	0.8	6.8 0.0	46.0	9.5 0.0	15.5 46.8
UPPER OVERBURDEN	GRASS SEEDED UNSEEDED TOTAL				0.8		0.0	2.5	5.5	2.5	0.0	0.0		0.0 0.0	3.0 0.0	46.0 15.0 15.0		11.0
TOTA	LSFOR	N																
averag	SEEDED Unseeded Total E for	1.5 N	3.5	0.0	0.0	1.5	8.0	2.5	13.0	4.5	0.0	0.0	0.0 6.0	0.8	0.0	61.0	0.0	26.5 61.0 87.5
Standar	SEEDED UNSEEDED TOTAL D DEV. N	0.8	1.8	0.0	0.0	0.8	0.0	1.3	6.5	2.3	0.0	0.0	0.0	0.0	0.0		0.0	13.3 30.5 43.8
	SEEDED UNSEEDED TOTAL	0.8	1.3	0.0	0.0	0.8	0.0	1.3	1.0	0.3	0.0	0.0		0.0	0.0		0.0	2.3 15.5 17.8
LOWER OVERBURDEN	GRASS SEEDED UNSEEDED TOTAL	DRILL 0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0	0.0	16.0
UPPER OVERBURDEN	GRASS	DRILL 0.0	Y 0.0	N 0.0	0.0		0.0	1.5	1.5	0.0	0.0	0.0		0.0	0.0	14.5 14.5	0.5	
T 0 T A	L S FOR Y	(						. <b>.</b>		· <b></b> ·								
	SEEDED UNSEEDED TOTAL FOR Y				0.0						0.0	0.0 0.0	0.0	0.0	0.0	<b>30.5</b> 30.5	0.5	31.0
	SEEDED UNSEEDED TOTAL DEV. Y	0.0	0.0	0.0	0.0				8.0	ე.0		0.0	0.0	0.0	0.0	15.3 15.3	0.3	15.5
	SEEDED UNSEEDED TOTAL				0.0	0.0	9.0	0.8				0.0	0.0			0.8		1.5 0.5

#### OVERBURDEN

#### DENSITY (PLANTS/SQ. METER)

SOIL ●		SEED MIX	SEED METH AGOA	FER AGIN	HAR	ier re Vest A <b>69</b> M		ELCI	DRHY	MESA	MEDF	JUV. Grass			ANN. GRASS		ANN. Forb	PER. Forb	TOTAL
: 5 <b></b> .				. <b></b>			- 6 R A	N D	TOT	ALS	, 								
•		SEEDED UNSEEDED TOTAL	1.5	3.5	0.0	0.0	1.5	9.0	4.8	14.5	4.5	0.0	0.0 0.0	0.0	6.9	0.0	91.5	0.5	29.5 92.0 121.5
							REP	0 R 1	A	VER.									
•		SEEDED UNSEEDED TOTAL	0.4	0.9	0.0		0.4 REPORT					0.0	0.0 0.0	0.0 0.0		0.0	22.9 22.9	4.8 0.1 4.9	7.4 23.0 30.4
							KEFUKI	SIMP	PRO DE	ATHITU	M								
•	• • • • • •	SEEDED UNSEEDED TOTAL	0.6	1.2	0.0	0.0	0.6	0.0	1.1	3.0	1.1	0.0	0.0	0.0	0.0	0.0	13.4 13.4	4.1 0.2 4.0	6.2 13.3 18.4

# OVERBURDEN (MATER HARV)

● SOIL	SEED NIX	SEED METH AGDA	FER AGIN	HARV	EST	eps Agtri	ELCI	ORHY	MESA	MEOF	JUV. Grass	TREE	SHRUB	ann. Grass	PER. GRASS	ANN. FORB	PER. FORB	TOTAL
LOWER OVERBURDEN	GRASS SEEDED UNSEEDED TOTAL	BROADCA 0.0		0.8	6.8	0.0	8.8	0.0	0.0	8.8	0.8	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	31.0 31.0	0.0	0.0 31.0
LOWER OVERSURDEN	GRASS SEEDED UNSEEDED TOTAL		0.0	0.0	0.0	2 0.0	8.6	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	14.0 14.0	0.0 0.0 0.0	31.0 0.0 14.0 14.0
LOWER OVERBURDEN	seeded Unseeded Total		0.0	0.0			0.0	0.0	0.0	1.0	0.6	0.0	0.0 0.0	0.0 0.0	0.0 0.0 0.0	23.0 23.0	1.0 0.0 1.0	1.0 23.0 24.0
Overboriner	SEEDED UNSEEDED TOTAL	BROADCA 0.0			0.0	<b>9.</b> 0	0.0	6.0	0.0	0.0	0.0	0.0 0.0	0.0 0.0	0.0	0.0 0.0 0.0	24.0 24.0	0.0 0.0 0.0	0.0 24.0 24.0
TOT	A L S FOR SEEDED	N	 n n	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0							
• AVERA	UNSEEDED TOTAL	N ·								1.0		0.0	0.0	0.0	0.0 0.0 0.0	92.0 92.0	1.0 0.0 1.0	1.0 92.0 93.0
● STANDA	SEEDED UNSEEDED TOTAL RD DEV. N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0 0.0 0.0	23.0 23.0	0.3 0.0 0.3	0.3 23.0 23.3
	SEEDED UNSEEDED TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0 0.0 0.0	6.0 6.0	0.4 0.0 0.4	0.4 6.0 6.1
LOWER OVERBURDEN						-												
LOWER OVERBURDEN	SEEDED UNSEEDED TOTAL GRASS	0.0 BROADCAS				1.0	0.0	1.0	8.0	0.0	1.0	0.0	2.0	0.0	0.0	7.0 7.0	8.0 0.0 8.0	13.0 9.0 22.0
•	SEEDED UNSEEDED TOTAL	1.0	1.0	2.0		-	0.0	1.0	5.0	1.9	7.0		1.0		13.0 0.0 13.0		0.0 0.0 0.8	19.0 21.0 40.0
LOWER OVERBURDEN	SEEDED UNSEEDED TOTAL	0.0	0.0			3 0.0	0.0	3.0	11.0	2.0	11.0	0.0	1.0 1.0	0.0	14.0 0.0 14.0	5.0 5.0		27.0 6.0 33.0
LOWER OVERBURDEN	GRASS SEEDED UNSEEDED TOTAL	BROADCAS 2.0		4.0		0.0	0.0	2.0	3.0	1.0	19.0	0.0	0.0	0.0	0.0 0.0	1.0	4.0 0.0 4.0	
•				<u></u>								<del>-</del>					<b>-</b>	<sup>.</sup>

# OVERBURDEN (WATER HARV)

S01L ● T 0 T	SEED MIX	SEED METH AGDA Y		HAR	ter re Vest E agsm		ELCI	ORHY	MESA	MEOF	JUV. GRASS	TREE	SHRUB	ANN. GRASS	PER. GRASS	ANN. FORB	PER. FORB	TOTAL
• · · · · · · · AVER	SEEDED UNSEEDED TOTAL AGE FOR	3.0 Y	3.0	8.0	1.0	2 <b>.8</b>	9.0	7.0	27.9	4.0	38.0	0.0	4.9		62.0 0.0 62.0	33.0	0.0	93.0 37.0 130.0
● Standy	SEEDED UNSEEDED TOTAL ARD DEV.		0.8	2.0	0.3	0.5	0.0	1.8	6.8	1.0	9.5			0.0		8.3	7.8 0.0 7.8	23.3 9.3 32.5
<b>т</b> от	SEEDED UNSEEDED TOTAL A L S FOR				0.4						6.5	0.0 0.0	0.7 0.7		9.1 0.0 9.1	7.1	3.3 0.0 3.3	7.9 7.4 6.6
•	SEEDED Unseeded Total	3.0 LOWER OV	3.0	8.0	1.0	2.0					38.0	0.0 0.0	4.0	9. <b>0</b>	0.0	125.0 125.0	32.0 0.0 32.0	129.0
•		0.4	0.4	1.0	0.1		0.0	0.9	3.4	0.6	4.8	0.0		0.0		15.6 15.6		11.8 16.1 27.9
•		0.7				0.4	0.0	1.1	4.0	0.7	6.6	0.0	0.7 0.7	0.0		9.9 9.9	4.4 0.0 4.4	12.8 9.6 7.8
UPPER OVERBURDEN  UPPER OVERBURDEN	SEEDED UNSEEDED TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	19.0	2.0	2.0 19.0 21.0
•	SEEDED UNSEEDED TOTAL L S FOR N	0.0	0.0	2.0	1.0	0.0	0.0	3.0	9.0			0.0	0.0	0.0		13.0 13.0	0.0 0.0 0.0	13.0
	SEEDED UNSEEDED TOTAL E FOR N	0.0				0.0	 0.0	3.0		2.0	0.0	0.0	0.0	0.0	0.0 6.0		0.0	9.0 32.0 40.0
	SEEDED UNSEEDED TOTAL	0.0	0.0	1.0	0.5	0.0	).0 	1.5			0.0		0.0	0.0	3.0 0.0		0.0	

# OVERBURDEN (WATER HARV)

SOIL	SEED MIX RD DEV. N		AGIN	HARV AGINE	est A69M	AGTRI	ELCI	ORHY	MESA	MEOF	JW. Grass	TREE	SHRUB	ANN. GRASS	PER. Grass	ANN. FORB	PER. FORB	TOTAL
·	SEEDED UNSEEDED TOTAL						0.0	1.5	0.0	1.0	8.8	8.8	8.8	9.8	1.1	3.0	0.0	2.0 3.0 1.0
UPPER OVERBURDEN	GRASS SEEDED UNSEEDED TOTAL	BROADCA	ST Y 2.0	Y 0.0	0.0	1 0.0	0.0	10.0	3.0	0.0	0.0	0.0	0.0	0.0	0.8	42.0	0.0	15.0 42.0
UPPER OVERBURDEN	GRASS SEEDED UNSEEDED TOTAL	BROADCAS 0.0	ST Y 1.0	Y 2.0	0.0	2 0.0	0.0	0.0	7.0	1.0	17.0		0.0	0.0	20.0 8.0	19.0	8.0 1.0	57.0 28.0 20.0 48.0
TOTA	L S FOR	Y	·		· <b>-</b>		·											
AVERAGI	TOTAL	0.0										0.0	0.0	0.0	0.0	61.0 61.0	1.0	62.0
		0.0	1.5	1.0	0.0	0.0	0.0	5.0	5.0	0.5	8.5	0.0	0.0	0.0	0.0	30.5 30.5	0.5	31.0
	SEEDED UNSEEDED TOTAL	0.0	0.5	1.0	0.0	0.0	0.0	5.0	2.0	0.5	8.5	0.0	0.0	0.0	0.0	11.5	0.5	11.0
•	SEEDED UNSEEDED TOTAL	0.0	3.0	4.0								0.0	0.0	0.0	38.0 0.0	93.0 93.0	 13.0 1.0	51.0 94.0
	SEEDED UNSEEDED TOTAL	PPER OVEF	0.8	1.0	0.3	0.0	9.0	3.3	2.5	0.8	4.3	0.0	0.0		9.5 0.0	23.3	3.3	12.8 23.5 36.3
: !	DEV. UPP SEEDED INSEEDED FOTAL				0.4	0.0	0.0	4.1	•		7.4	0.0	0.8	0.0	7.4 0.0	 11.1	2.9 0.4 3.4	10.0

. 1	2-	A٩	_	3	7

# OVERBURDEN (WATER HARV)

SOIL	SEED MIX	SEED METH AGDA	FER AGIN	HAR	TER RI JEST AGSH		ELCI	ORHY	NESA	HEOF	JUV. Grass	TREE			PER. GRASS		PER. Forb	TOTAL	
				· = =, =	• • • • •	- 6 R A	N D	T 0 T	ALS	; <b>-</b>		• • • •	• • •				.· · • • •		
) · 	SEEDED UNSEEDED TOTAL	3.0	6.8	12.0	2.8	2.8 R E P			37.8 V E R.	8.0	55.8	0.0 0.0	4.8 4.8		100.9 0.0 190.0	218.0	1.0	145.0 223.0 368.0	
· •	SEEDED UNSEEDED TOTAL	0.3	0.5	1.0		8.2 DEDOOT					4.6	0.0 0.0	0.3 0.3	0.0 6.0		18.2 18.2	3.8 0.1 3.8	12.1 18.6 30.7	
)	SEEDED UNSEEDED TOTAL	0.6	0.8	1.3		REPORT 0.4					6.9	0.0	0.6	0.0	9.3 8.0 9.3	10.9	4.0 0.3 4.1	11.9 10.7 12.2	

#### OVERBURDEN

SOIL			FERT REP T		A T X !! L O S !! I T U !!	A T X! L 0 S! I T U! V A R!	A T %! L O S! I T U! V A R!	A T %! L O S! I T U! V A R!	ROMO ! A T % ! L O S ! I T U ! V A R !	A T % L O S I T U
**				<u>.</u>	ELV	E F A i	E L V!	E L V !	E L V!	ELV
LOWER	OVERBURDEN		NO F 1		5 5 100.0	3 4 75.0	3 4 75.8	4 4 100.0	3 4 75.0	18 21 85.7
UPPER	OVERBURDEN	BASIN	NO F 2		53.2 3 5 60.8 29.3	4 4 188.8	7.7 3 3 100.0 6.3	3 4 75.8	5 5 100.0	18 21 85.7
	TOTAL	S FOR								
	AVERAGE	FOR	HEIGHT	(DI)	8 10 160.0 82.5	31.3	6 7 175.0 14.0	7 8 175.0 25.8	8 9 175.0 43.7	36 42 171.4
						4 4 87.5	3 4 87.5 7.0	4 4 87.5 12.9	4 5 87.5 21.9	18 21 85.7
					1 0 20.0 12.0	1 0 12.5	0 1 12.5	1 0 12.5	1 1 12.5	0 0 0.0
LOWER	OVERBURDEN	BASIN	FERT 1	(DI)	4 4 100.0	5 5 100.0	3 5 60.0	5 5 100.0	4 5 80.0	21 24 87.5
UPPER	OVERBURDEN	BASIN	FERT 2 HEIGHT	(CM)	4 4 100.0 34.8	5 5 100.0 16.4	1 6 16.7 7.0	5 5 100.0 10.4	22.0 4 4 100.0 20.5	19 24 79.2
					8 8 200.0 73.6	10 10 200.0	4 11 76.7 15.0	10 10 200.0	8 9 180.0	40 48 166.7
			HEIGHT	(CM)		5 5 100.0 19.6	2 6 38.4	5 5 100.0	4 5 90.0	20 24 83.3
			HEIGHT	(CH)	0 0 0.0 2.0	0 0 0.0 3.2	0.5	0.7	0 1 10.0	
			HEIGHT	(CM)	16 18 360.0 156.1	17 18 375.0 70.5	10 18 251.7 29.0	17 18 375.0 48.0	16 18 355.0 86.2	
			HEIGHT	(CM)	39.0	4 5 93.8 17.6	3 5 <b>62.9</b> 7.3	4 5 93.8 12.0	4 5 88.8 21.6	
						1 1 10.8	1 .1 30.3	1 1 10.8	1 1 11.4	
LOWER	OVERBURDEN	FLAT	NOF 1	(ON)	4 4 100.0 45.3	3 <b>4</b> 75.0	3 4 75.0	3 3 100.0	3 6 50.0	16 21 76.2
UPPER	OVERBURDEN	FLAT	NO F 2		5 5 100.0 25.2	4 4 100.0	3 3 100.0	4 4 100.0 12.3	4 5 80.0	20 21 95.2

#### OVERBURDEN

	WATER HARVES	R FERT REP		! A ! A ! L	T O	% \$	! A ! L	T 0	X S	! A	T	% S	! A	T	X S	! A ! L	1	% S	! ! !	•	T O	S
				! V	A	R	! V	A	R	! V	A	R	! V	A	R	! V	A	R	! (	<i>,</i>	A	R
TOTA	L S FOR																					<b></b> .
AVERAGE	FOR	HEIGHT NO F	(01)	70.5	; 		25.( 	) 		10.	.7 		32.	3 		31.	3					
Standard				5	5 :	100.0	4	4	87.5	3	4	87.5	4	4	180.8	4	6	65.	<b>a</b> 18	2	1	85.
		HE16HT	(DH)	1 10.1	1	0.0	1 3.2	0	12.5	0	1	12.5	1	1	0.0	1	1	15.	9 2	! !	0	9.
LOWER OVERBURDEN	FLAT	FERT 1 HEIGHT	(04)	6 41 0	6 1	00.0	4	4	100.0	4	5	80.0	6	6	100.0	3	3	100.	B 23	2	4	95.
UPPER OVERBURDEN	FLAT	FERT 2 HEIGHT		4	4 1	00.0	5	5	100.0	2	6	33.3	5	5	100.0	4	4	100.	<b>B</b> 20	2	4	83.
TOTAI	. S FOR																-					
AVERAGE	FOR	HEIGHT FERT	(CH)	71.0	10 2 	.00.0 	9 33.3 	9 } 	200.0 	6 18,	11 8 -	113.3	11 27.2	11	200.0	7 43.	7 0 -	200.1	) 43 	41	B 1	79.
Standard	DEV.	HEIGHT FERT	(DH)	5 35.5	5 1	00.0	5 16.6	5	100.0	3 9.	6 4 	56.7	6 13.6	6	100.0	4 21.	4 5	100.	22	24	4	89.
T O T A L				1	1	0.0	1	1	0.0	1	1	23.4	1	1	0.0	1	1	0.0	1 2	 (	)	6.
AVERAGE				19	19 4	00.0	16	17	375.0	12	18	298.3	18	18	400.0	14	18	330.0	79	9(	3	50.
STANDARD				5	5 1	00.0	4	4	93.8	3	5	72.1	5	5	100.0	4	5		5 20		}	87.
STANUAKU	DEV.	HEIGHT	(EM)	i 8.1	1	0.0	1 3.1	0	10.8	1 2.:	1	24.3	1 3.0	1	0.0	1 5.	1					8.3
	·							-						•				- <b></b>				
		HEIGHT		35 3	37 7	0.0	33	35	750.0	22	34	540.0	35	3.6	775.0	30	34	485 0	155	190	 i 6!	 88.
		HEIGHT	(PD)	4 37.2	5	95.0	4 16.1	4	93.8	3 7.3	5 3	67.5	4 13.4	5	96.9	4 20.	5	85.6	19	23	· -	 B6.1
				1	1	13.2	1	Û	10.8	1	1	27.8	1	1	8.3	1	1	14.5	2		. <b>-</b>	6.6
		HEIGHT	(DM)	8.7			5.5	-		1.0	5	· •	3.0	•		6.1	3		-	4	•	· ·

SOIL ●	ta Hal	nter fert <b>rep</b> Rvest	!!	A I	T U	! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	1 1 1 1 1 1	S S U R	!	L 0 I T V A	% ! S ! U ! R !	A L I	T 0 T A	% S U R	A L I I V	T 0 T A	% S	! L ! I	T 0 T A	% S
•	- TOTALS - AVERAGE FO			9 12	2 300.8	18	3 35 7.2	2 <b>04.</b> 1		2 11 9.0	66.6	14 68	21 .8	 266.7	18 70	11 .8	366.7	53	 90	235.0
	– Standard De			2 3	3 75.0		5 9	51.0		1 3	16.6	4	5	66.7	3	3	91.7	13	23	58.8
•	-TOTALS			1 (	27.6	1	2 0	22.2	<u>!</u>	1 0	16.7	1	0	8.2	1	0	14.4	2		9,9
	- AVERAGE FO			9 12	2 300.0	18	35	204.1		2 11	66.6	14	21	266.7	10	11	366.7	53	90	235.0
	- Standard De			2 3	3 75.0		, 9	51.0		1 3	16.6	4	5	66.7	3	3	91.7	13	23	58.8
		HEIGHT		1 (	27.6	. 2	. 0	22.2		1 0	16.7	1	0	8.2	1	0	14.4	2	1	9.9
•															Ž.					
	· · · · · · · ·	HEIGHT :	; (CM) 2:	34 48 11.1	438.9	42 84	86 .4	297.9	2	6 35 24.7	99.9	38 100	53 . 6	416.8	25 110	. 27 . 5	554.2		 249	350.7
				6 8	73.2	7	14	49.6		1 6	16.6	6	9	69.5	4	5	92.4	24	42	58.5
_		HEIGHT	(CM)	5 7 4.3	23.2	4	.0	18.7		1 4 3.3	14.4	4	5	8.5	2	3	12.4	16	27	8.1

## OVERBURDEN (W/DOZ.TRENCH)

SÖIL	HATER HARVEST	FERT REP	!	A L I	T 0 T A	% ! S ! U ! R !	A L I V	T 0 T A	% ! S ! U ! R !	CEM A T L O I T V A E L	% ! S ! U ! R !	A L I V	T 0 T A	% ! S ! U ! R !	A L I	T O	% ! S ! U ! R !	A L I	T 0 T	ጀ \$ ሀ R
LOWER OVERBURDEN	TRNCH	NO F 1 HEIGHT	(01)	14 36.	18 9	77.8	10 17.	25 1	40.0	1 12 9.8	8.3	13 15.	16 2	81.3	7 16.1	8	87.5	45	79	57.0
TOTAI				14	18	77.8	10	25	40.0	1 12	8.3	13	16	81.3	7		 87.5	 45	 79	 57.0
AVERAGE	FOR	HEIGHT NO F -	(DH)	36.9 	<del>)</del> 		17. 	1		9.0		15.	2 		16.1					
STANDARD	DEV. I	HEIGHT 7 ON	(DH)	36.9	? 	· <b>-</b>	17.	i 			<b></b> .	15.	2		16.1	_		. <b></b> .		
)		HEIGHT	(DH)	0.0	)	0.0	0.	0		0.0	0.0	0.0	0	0.0	0.0 	0	0.0	• 	8	0.0
LOWER OVERBURDEN	TRNCH I	FERT 1 HEIGHT	(CM)	11 40.7	18 7	61.1	14 18.	26 1	53.8	3 12 6.7	25.0	11 16.	16 S	68.8	8 23.6	8	100.0	47	80	58.7
TOTAL	. S FOR																· <b></b> -			
AVERAGE	FOR	HEIGHT FERT	(DH)	11 40.7	18	61.1	14 18.	26 1 	53.8	3 12 6.7	25.0	11 16.6	16 5	68.8	8 23.6	8 	100.0	47	80	58.7
Standard	DEV. F	HEIGHT	(DH)	40.7	•		18.	1		3 12 6.7		16.6	,		23.6			47	80	58.7
TOTAL				0	0	0.0	8	ŋ	0.0	0 0	0.0	Ω	Ω	0.0	Ω	n	0.0	0	0	0.0
AVERAGE		HEIGHT	(CM)	25 77.6	36 1	38.9	24 35.3	51 2	93.8	4 24 15.7	33.3	24 31.8	32 1	50.1	15 39.7	16	187.5	92	159	
STANDARD		HEIGHT	(CM)	13 38.8	18	69.5	12 17.6	26 5	46.9	2 12	16.6	12	16	75.1	8	8				57.9
3; PARUMEN	DEV. 1			2	0	8.4	2	i	6.9	1 0 1.2	8.4	1 0.7	0	6.3	1 3.8		6.3	1	1	0.9
UPPER OVERBURDEN		IO F 1 HEIGHT								0 - 2 0.0		4 15.0			2 12.5		190.0	11	21	52.4
UPPER OVERBURDEN	TRNCH N	OF 2 HEIGHT		3	3 1	0.00	4	9	44.4	0.0	0.0		5	0.08		3	100.0	14	23	60.9
UPPER OVERBURDEN	TRNCH N	NO F 3		3	3 10	0.00	8	9	88.9	1 3 5.0	33.3	3 20.3	5	60.0	2	3	66.7	17	23	73.9
UPPER OVERBURDEN		OF 4 HEIGHT		1	3 3	33.3	3	9	33.3		33.3	3	5		18.0 3 22.0		100.0	11	23	47.8
															. <b></b> .					

COVER

601L	SEED MIX	SEED METHOD	FERT	WATER HARVEST	REPS	BARE Ground %	ROCK %	LITTER %	VEGETATION %	TREE %	SHRU8 %	ann. Grass %	PER. GRASS %	ANN. FORB %	PER. Fore
AILINGS/TOPSOIL	GRASS	DRILL	N	N	i	76.1	8.8	1.3	13.8	0.0	0.8	8.8	3.0	1.5	9.3
TAILINGS/TOPSOIL	GRASS	DRILL	N	N	2	77.5	9.0		12.5	0.0		8.8	2.7		6.1
TAILINGS/TOPSOIL	GRASS	DRILL	N	N	3		8.3		17.0	0.0		9.1	3.9		12.6
TAILINGS/TOPSOIL	GRASS	DRILL	N	N	4	68.5	10.0	1.5	20.0	0.0	0.0	0.0	4.5	1.8	14.5
TOTAL	S FOR						. <b></b> .								. <b></b>
AVERAGE	EUD	N				294.8	36.1	5.8	63.3	0.0	0.0	0.1	14.1	6.6	42.5
		.,				73.7	9.0	1.5	15.8	0.0	0.0	0.0	3.5	1.7	10.6
Standard	DEV. N				 	3.5	0.6	0.4	2.9	0.0	0.0	0.0	0.7	1.2	3.2
CALL THE CTOPONI	22402	DRILL	Y	M	1	74.1	7.8	1 2	16.8	0.0	0.0	0.0	3.2	27	10.5
TAILINGS/TOPSOIL TAILINGS/TOPSOIL		ADTER	v	N N	2	68.9	19.0		19.8	0.0					13.0
		DRILL	Ÿ	N			11.5		18.3	0.0					11.4
TAILINGS/TOPSOIL		DRILL	Ÿ	N			9.3		17.5	0.0				1.7	8.8
)TOTAL	S FOR	Y ·		-,								·	 (E E		
AVERAGE	FOR	Y				282.3	38.6	6./ 	72.4	0.0	 	U.U 	15.5	12.8	44.
STANDARD	. •	•				70.6	9.7	1.7	18.1	0.0	0.0	0.0	3.9	3.2	11.0
						2.4	1.3	0.4		0.0	0.0	0.0	2.1	1.5	1.5
)						577.1	74.7	12.5	135.7	0.0	0.0	0.1	29.6	19.4	86.
						72 1	9 3	1.4	17.0		0.0	0.0	3.7	2.4	10.1
					REPO				3.5			0.0	1.6	 1 1	
						3.4	1.1		2.5						

<b>S</b> OTÉ.	SEED MIX	seed Meth Agda		t wate Harve Agine	ST		ELCI	ORHY	MESA		JUV. GRASS	TREE		ann. Grass		ANN. FORB	PER. FORB	TOTAL
•	GRASS SEEDED UNSEEDED TOTAL	DRILL 9.5	6.0	N 2.5	0.5	0.0	8.0	3.5	6.0	2.6	0.0		8.8 0.0		13.0 1.0 14.0	5.5 5.5	8.0 0.0 8.0	21.8 6.5 27.5
	GRASS SEEDED UNSEEDED TOTAL	0.0		0.0	0.5	2 0.0	0.0	1.0	3.5	1.0	0.0	0.0 0.0	0.0 0.0	0.0 0.0		15.0 15.0	4.5 0.0 4.5	8.8 15.5 23.5
•	GRASS SEEDED UNSEEDED TOTAL	0.5	4.5	1.0	1.0		0.0	2.5	12.5	3.0	0.0	0.0 0.0			10.5 0.0 10.5		15.5 0.0 15.5	26.0 2.5 28.5
TAILINGS/TOPSOIL	GRASS SEEDED UNSEEDED TOTAL	0.5	5.5	i.5	1.0	3.0	0.0	3.0	11.0	2.0	0.0	0.0 0.0			14.5 0.5 15.0			27.5 7.5 35.0
TOTA	L S FOR	N						<b></b>	<sub>1</sub>			<b>-</b>			- <b></b>	<b>-</b>		
● AVERAGI	UNSEEDED TOTAL	1.5 N	18.0	5.0	3.0	4.0	0.0	10.0	33.0	8.0	0.0	0.0	0.0		41.5 2.0 43.5			82.5 32.0 114.5
	SEEDED UNSEEDED TOTAL	0.4	4.5	1.3	0.8	1.0	0.0	2.5	8.3	2.0	0.0	0.0 0.0			10.4 0.5 10.9		0.0	8.0
STANDARI		0.2	1.5	0.9	0.3	1.2	0.0	0.9	3.6	0.7	0.0	0.0 0.0				4.6		4.7
TAILINGS/TOPSOIL	GRASS SEEDED UNSEEDED TOTAL	0.0		r N 1.0		1 0.5	0.0	4.0	6.5	3.0	0.0	0.0 0.0				6.0	9.5 0.0 9.5	8.5
TAILINGS/TOPSOIL	GRASS SEEDED UNSEEDED TOTAL	0.0	1.0	( N 2.5		2 0.5	0.0	1.0	3.5	1.5	0.0	0.0 0.0				9.0	5.0 0.0 5.0	9.0
TAILINGS/TOPSOIL	GRASS SEEDED UNSEEDED TOTAL	0.0	5.0	í N 1.0		3 0.5	0.0	4.5	7.5	3.0	9.0	0.0 0.0			11.5 1.0 1.2.5	10.0		11.0
TAILINGS/TOPSOIL	GRASS SEEDED UNSEEDED TOTAL	0.0	7.0	Y N		4 5 2.0	0.0	4.5	3.5	1.5	0.0		0.0		15.0 1.0 16.0	5.5		6.5

SOIL	SEED NIX	SEED METH	FEF	ITAM TS		EPS					JW.			AN.	PED	ANN.	DED	
			AGIN	AGINE		AGTRI										FORB		TOTAL
TOTA	L S FOR	Y				• • ·							- ,-, -				- ; - ;	
• AVERAG	SEEDED UNSEEDED TOTAL E FOR									f.		8.8 8.8	8.0	8.8	45.8 4.5 49.5		0.0	75.8 35.8 118.0
D Standar	SEEDED UNSEEDED TOTAL D DRU V											0.0 0.0	0.0	0.0 0.0	1.1 12.4	7.6 7.6	0.0 7.5	18.8 8.8 27.5
	SEEDED UNSEEDED TOTAL	0.0	2.4	0.6	0.4	0.6	0.0	1.5	1.8	0.8		0.0	0.0	0.8	3.8 0.9	1.9	2.5 0.0	5.2 1.6 5.5
• 						- G R A	N D	тот	ALS	;	. <b>.</b>							
	SEEDED UNSEEDED TOTAL											0.0	0.0	0.0	6.5 93.0	60.5	0.0	
						REP	0 R 7	A	VER.									
_	SEEDED UNSEEDED TOTAL											0.0	0.0 0.0	0.0 0.0	0.8 11.6	7.6	0.0	8.4
						REPORT	STAND	ARD DE	DITAIV	N	·							
	SEEDED UNSEEDED TOTAL	0.2	2.1	0.8	0.3	1.0	0.0	1.3	3.2	0.7	0.0	0.0	0.0	0.0	4.0 0.7 4.5	3.5	0.0	6.6 3.5 4.9

SOIL	WATER	FERT REP	!	ARFR !	ARNO !	CENO:	JUSC !	ROMO !	TOTAL
• •	HARVES		1	A T %! L O S! I T U! V A R! E L V!	L 0 S! 1 T U! V A R!	I T U!	L 0 54	A T X ! L O S ! I T U ! V A R ! E L V !	LOS
A A			:	E L V :	E L Y	E L V :	E L VI	E L V :	E
TAILINGS/TOPSOIL	Basin	NO F 1 HEIGHT		3 3 100.0 43.0	3 3 168.8 16.8	3 3 180.8 7.3	3 3 106.0 16.3	3 3 100.0 23.3	15 15 198.0
TAILINGS/TOPSOIL		NO F 2 HEIGHT		51.0		9.7	13.0	3 3 100.0 18.3	
TAILINGS/TOPSOIL				3 3 100.0 34.0		2 3 66.7 5.0	3 3 100.0 14.0	2 3 66.7 14.5	12 15 80.0
TAILINGS/TOPSOIL				2 3 66.7	3 3 100.0		3 3 100.0	3 3 100.0	12 15 80.0
TOTAL	S FOR								
• AVERAGE	FOR		(04)		60.3	9 12 300.0 26.0		11 12 366.7 75.4	54 60 360.0
		HEIGHT	(EM)	42.9	15.1	6.5	14.5	3 3 91.7 18.9	14 15 90.0
STANDARD				0 0 14.4	0 0 14.4	1 0 27.6 2.2	0 0 0.0	0 T 14.4	2 0 10.0
TAILINGS/TOPSOIL	RASIN	FFDT 1		3 3 100.0	2 2 100 0	1 2 22 2	1 2 22 2	3 3 100.0	11 15 72 2
		HEIGHT	(CM)	46.7	22.0	13.0	16.0	12.7	
TAILINGS/TOPSOIL	BASIN			3 3 100.0 38.3	3 3 100.0	1 3 33.3 7.0	3 3 100.0 16.3	3 3 100.0 21.7	13 15 86.7
TAILINGS/TOPSOIL	BASIN	FERT 3		3 3 100.0 41.7	2 3 66.7	0 3 0.0		2 3 66.7	9 15 60.0
TAILINGS/TOPSOIL	BASIN	FERT 4		3 3 100.0 48.3	1 3 33.3	0 3 0.0		2 3 66.7	9 15 60.0
●TOTAL	S FOR							10 10 200 4	
AVERAGE	FOR	HEIGHT	(M)	175.0		20.0		10 12 333.4 74.9	42 50 280.0
		HEIGHT	(CH)	3 3 100.0 43.8	2 3 75.0 19.7	1 3 16.6 5.0	2 3 75.0 15.0	3 3 83.4 18.7	11 15 70.0
STANDARD	DEV.	FERT		0 0 0.0	1 0 27.6		1 0 27.6	1 0 16.6	2 0 11.1
			·		+ 1 4 	VIT:			

SOIL	WATER FERT REP	!		4RFR		!	ARI	NO	•	!	CEN	ß	ŧ		JUSC		ļ		ROW	)	ŀ		TOTA	NL
•	HARJEST	1	A	T	χ,	ł	Α .	1	<u> </u>	. A	T	7	. !	A	T	Z	į	A	T	X	!	A	1	<b>%</b>
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		į	ī	Ť	U	ţ	ī.	7	1	. ]	7	i		1	Ť	U	ì	Ī	T	U	!	1	1	T U
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•																								
						A P	A N	n .	TΩ	ТΔ	1 5													
			23	24 7	766.7		20 2		4.7	11	24	366	١.٨	21	24	704 .	a	21	24	700.	.1	96	120	640.0
	HEIGHT	(m)	346.				39.1		•••		.0	-		118.				150.			-			
					!		PO	вτ		A V E	_				·• 									
_			3	2	95.8			3 8				45	. 0	3	2	87.	5	3	3	87.	5	12	, ,=	80.0
	ue i eur	/ PM\	43.1		73.0		17.4	3 0	3.3			7.	J.0	14.		07.	J	18.	_	07.		12	. 1.	, 00.0
	HEIGHT	Cutz	43.	3				ALIFA:	na f		.8			17.	. 0			10.	D.					
• • • •							RT ST				_			·							` -			
			0		11.0		•	0 2	3.6		0	3/	7.0	1	. 0	23.	2	0	-	16.	ı.	2		14.5
	HEIGHT	(DI)	5.	1			3.0			4	.2			1.	.4			3.	./					
																					-			

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SOIL	SEED HIX	SEED METHOD	FERT	WATER HARVEST	REPS	Bare Ground %	ROCK %	LITTER %	VESETATION %	TREE	SHRUB %		PER. GRASS X	FORB	PER. FORB X
TAILINGS/SUBSOIL	GRASS	DRILL	N	N	1	81.4	1.3	1.0	16.3	8.6	0.9	8.8	3.3	4.3	8.7
TAILINGS/SUBSOIL	GRASS	DRILL	N	N	2	87.6	1.3	0.3		0.0	0.0	1.1	8.7	3.2	6.9
TAILINGS/SUBSOIL	GRASS	DRILL	N	N	3	93.7	2.5		3.8	0.8	0.8	8.8	2.4	1.0	8.4
TAILINGS/SUBSOIL	6RASS	DRILL	N	N	4	81.4	3.3	0.0	15.3	0.0	9.0	8.8	5.2	3.6	6.5
TOTAL	S FOR	N									:				
						344.1	8.4	1.3	46.2	0.0	0.0	0.8	11.6	12.1	22.5
AVERAGE	FOR	N				86.0	2.1	0.3	11.6	0.0	0.8	0.0	2.9	3.0	5.6
STANDARD	DEV. N														
						5.1	8.0	0.4	4.9	0.0	0.0	0.0	1.6	1.2	3.1
TAILINGS/SUBSOIL	GRASS	DRILL	Y	N	1	76.1	2.8	0.8	20.3	0.0	9.0	8.0	2.4	13.8	4.1
TAILINGS/SUBSOIL	6RASS	DRILL	Y	N	2	86.5	2.5	0.5	10.5	0.0	0.0	0.0	0.7	4.2	5.6
TAILINGS/SUBSOIL	GRASS	DRILL	Υ	N	3	75.4	2.0	0.3	22.3	0.0	0.0	0.0	1.3	7.2	13.8
TAILINGS/SUBSOIL	GRASS	DRILL	Y	N	4	82.2	1.5	0.0	16.3	0.0	0.0	0.0	4.3	11.3	0.7
TOTAL	S FOR	Y					. <b></b> .								
AVERAGE	FND	Y				320.2	8.8	1.6	69.4	0.0	0.0	0.0	8.7	36.5	24.2
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		•				80.1	2.2	0.4	17.4	0.0	0.0	0.0	2.2	9.1	6.1
Standard	DEV. Y	'				4.6	0.5	0.3	4.5	0.0	 n n	0.0	1 4	 3 7	 4 0
					6 R	AND T	0 T A	L S							
						664.3	17.2		115.6	0.0	0.0	9.0	20.3	48.6	46.7
					R E	PORT	AVE	E R		·					
						83.0	2.2	0.4	14.5	0.0	0.0	0.0	2.5	6.1	5.8
				- <b></b> -	REPOR	RT STANDARD			<i></i> -						
						5.7	8.7	0.4	5.5	0.0	0.0	0.0	1.5	4.1	4.1

SOIL	SEED MIX	SEED METH	FER	WATE HARVE		PS		•			JN.			AN.	PER;	AN.	PER.	
		AGDA	agin			AGTRI	ELC1	DRHY	MESA	HEOF	erass	TREE	SHRUB	SRASS	BRASS	FORB	FORB	TOTAL
TAILINGS/SUBSOIL	GRASS SEEDED UNSEEDED TOTAL	DRILL 0.5	N 3.5	N 1.0				8.8	2.5	1.0	6.8	9.0 0.0	0.0 0.0	0.8 9.9	15.8 9.8 15.6	9.8 9.0	2.5 8.8 2.5	17.5 9.8 26.5
TAILINGS/SUBSOIL	GRASS SEEDED UNSEEDED TOTAL	DRILL 0.0	1.5	0.0	0.0		9.0	6.8	1.0	1.0	0.0	0.0 0.0	0.0 0.0			3 <b>0.5</b> 30.5	2.0 0.0 2.0	9.5 30.5 40.0
TALLINGS/SUBSOIL	GRASS SEEDED UNSEEDED TOTAL		1.5	0.5	0.0		0.0	4.5	0.5	0.0	0.0	0.0 0.0	0.0 0.0			5.5 5.5	0.5 0.0 0.5	7.0 6.0 13.0
TAILINGS/SUBSOIL	GRASS SEEDED UNSEEDED TOTAL	DRILL 1.0	2.5	0.0		4 2.5	0.0	5.0	1.5	1.0	6.0	0.0 0.0	0.0 0.0			2.5 2.5	2.5 0.0 2.5	14.0 2.5 16.5
+ T O T A	L S FOR	N																
• ALIEBAG	UNSEEDED TOTAL	1.5 N	9.0	1.5	0.5	4.5	0.0	23.5	5.5	2.0	0.0	0.0	0.0	0.0	0.5	47.5 47.5	7.5 0.0 7.5	48.0 48.0 96.0
		0.4	2.3	0.4	0.1	1.1	0.0	5.9	1.4	0.5	0.0	0.0		0.0	10.1 0.1 10.3	11.9	1.9 0.0 1.9	12.0 12.0 24.0
SIMIUHN	SEEDED UNSEEDED TOTAL		0.8	0.4	0.2	1.1	0.0	1.3	0.7	0.5	0.0	0.0				11.0	0.8 0.0 0.8	4.0 10.9 10.5
•																		
TAILINGS/SUBSOIL	SEEDED UNSEEDED TOTAL	0.0	2.0	0.5	0.0	0.0	0.0	4.5	1.0	0.0	0.0	0.0 0.0				16.0 16.0	1.0 0.0 1.0	8.0 16.0 24.0
TAILINGS/SUBSOIL	GRASS SEEDED UNSEEDED TOTAL	0.0		1.5	0.0		1.0	6.0	1.0	0.0	0.0	0.0			11.0 0.0 11.0	13.0 13.0	1.0 0.0 1.0	12.0 13.0 25.0
TAILINGS/SUBSOIL	GRASS SEEDED UNSEEDED TOTAL	0.0	2.5	0.0	0.0		0.0	7.0	2.0	1.0	0.0	0.0			9.5 0.0 9.5	11.0 11.0	3.0 0.0 3.0	12.5 11.0 23.5
TAILINGS/SUBSOIL	GRASS SEEDED UNSEEDED TOTAL	DRILL 0.5	Y 1.5	N 0.8		1.5	0.0	6.5	0.5	0.0	0.0	0.0			10.0 0.5 10.5	10.5 10.5	0.5 0.0 0.5	10.5 11.0 21.5
						- <b>-</b> -	. <b></b> -										·	

SOIL	SEED MIX	seed Meth	FER	t water Harves		,				JW.			AN.	PED.	ANN.	PER.	
•		AGDA	AGIN		GEN AGTRI	EFCI	ORHY	MESA			TREE				FORB		TOTAL
T 8 T A	L S FOR	Y		• • • <u>*</u>													
	UNSEEDED TOTAL		•		2.0						0.0	0.0	0.0	37.5 0.5 38.0			51.0
	UNSEEDED TOTAL		2.0	0.5	0.0 0.5	0.3	6.8	1.1	0.3	0.8	0.0		0.0	9.4 0.1 9.5	12.6	0.0	12.8
			0.4	0.6	0.0 0.6	0.4	0.9	0.5	0.4	0.0	8.0	0.0	0.0	1.5 9.2 1.5	2.2	0.0	1.8 2.0 1.3
•					G R A	N D	тот	ALS			<u>ئىدى ئىدى</u> ئىدىنى ئىدىنى						
	SEEDED UNSEEDED TOTAL	2.0	17.0		0.5 6.5 REP						0.0	0.0	0.0 0.0	1.0 79.0	98.0 98.0	0.0	99.0
	SEEDED UNSEEDED TOTAL	0.3		0.4	0.1 0.8 REPORT	0.1	5.9	1.3	0.4	0.0	0.0 0.0	0.0 0.0	0.0		12.3	0.0	12.4
					KEPUKI	SIAND	שאט טבי	ATH110	4								
	SEEDED UNSEEDED TOTAL	0.4	0.6	0.5 (	0.2 1.0	0.3	1.2	0.7	0.5	0.0			0.0	2.6 0.2 2.6	7.9	0.0	3.2 7.9 7.5

SÖIL	HARVES	R FERT REP St		ARFR ! A T % ! L O S ! I T U ! V A R ! E L V !	ARNO ! A T % ! L O S ! I T U ! V A R ! E L V !	! L O S ! ! I T U ! ! V A R !	L 0 \$ ! I T U ! V A R !	ROMG ! A T X ! L O S ! I T U ! V A R ! E L V E	TOTAL A T % L O S I T U V A R E L V	S U R
TAILINGS/SUBSOIL	Basin			3 3 100.0	1 3 33.3		3 3 100.0		11 15 73	3.3
TAILINGS/SUBSOIL	BASIN	HEIGHT NO F 2		33.7 3 3 100.0 32.0	10.0 3 3 100.0	4.0	15.0 3 3 100.0		12 15 80	0.0
TAILINGS/SUBSOIL	BASIN	NO F .3		3 3 100.0 27.3			10.3 3 3 100.0		12 15 80	0.0
TAILINGS/SUBSOIL	BASIN	NO F 4		3 3 100.0 35.3	3 3 100.0	3.5 3 3 100.0 7.0	15.0 3 3 100.0 15.3	9.5 3 3 100.0 15.3	15 15 100	0.0
TOTAL	S FOR	NO F -								
AVERAGE	FOR	METCUT	(OH)	12 12 400.0 128.3	9 12 300.0 58.6	7 12 233.3 17.5	12 12 400.0 55.6	10 12 333.4 45.8	50 60 333	3.3
		HEIGHT	(DH)	3 3 100.0 32.1	2 3 75.0 14.7	2 3 58.3 4.4	3 3 100.0 13.9	3 3 83.3 11.3	13 15 83	3.3
STANDARD	DEV.				1 0 27.6 3.9	1 0 27.7	0 0 0.0	1 0 16.6 2.4	2 0 10	).O
TAILINGS/SUBSOIL	BASIN	FERT 1		3 3 100.0	3 3 100.0	0 3 0.0	3 3 100.0	3 3 100.0	12 15 80	
TAILINGS/SUBSOIL		HEIGHT FERT 2	(PM)		27.0	0.0	15.3	15.7 3 3 100.0		
TAILINGS/SUBSOIL		HEIGHT FERT 3	(CH)		24.0	7.3 1 3 33.3	13.3	13.7 3 3 100.0	13 15 86	
TAILINGS/SUBSOIL		HEIGHT FERT 4	(DH)		25.3	11.0	14.3	20.7		
		HEIGHT				9.0	15.0	23.0	14 15 93	1.3
TOTAL	S FOR							12 12 400.0	52 (0.34)	
AVERAGE	FOR	HEIGHT	(CH)	171.4	96.3	27.3	57.9	73.1	J4 00 340:	./
		HEIGHT	(PG)	3 3 100.0 42.9	24.1	6.8	14.5	3 3 100.0 18.3	13 15 86	.7
STANDARD		HEIGHT	(CH)	0 0 0.0	1 0 28.9 2.6	1 0 37.3 4.2	0 0 0.0	9 0 0.0 3.7	1 0 4.	.7

SOIL	WATER FERT	REP	į	(	arfi	₹	!	A	RNO		i	CB	10			J	usc		i	RU	HO.		ļ	T	UTAL	
•	HARVEST		!	A	T	X	! (	A	T	7.	! (	<b>A</b> 1	ſ	2	1	A	T	X	. 6	1	1	X	<u> </u>	A	T	%
		· . · .	į	L	0	S	!	Ŀ	0	S	!	L . (	8	S	l	L	0	8	! 1	1	•	5		L	0	S
			!	1	T	U	!	1	T	U	ļ	1 1	Γ.,	ð :	No.	F	Ŧ	U	! ]		1	Ü		1	Ŧ	IJ
	1		!	Ų	A	R	!	V	A	R	•	<b>y</b> 4	4	R	•	V	A	R	F 3	1	A .	R	ļ,	V	A	R
			:	E	L	V	•	E	L	V	!	E i	Ι,	<b>V</b> !		E:	L	V	!	: I	L	<b>V</b>	•	E	L	V
_	No. of the second		*, *, *			f	٠.									. *										
•																		£.*	* * * * * * * * * * * * * * * * * * * *		*			2		
							6 R	A N	D	T O	TA	LS					-									
				24	24	800.0	1	9 :	24 6	33.3	1	3 24	4 4:	33.3	2	4	24	8. 9 <b>9</b> 8	27	2	4 73	33.4	. 1	102	120	680.
	HE	16HT	(OH)	299.	7		15	4.9			4	4.8			11	3.5	i		111	3.1						
							RE	P O	RT	1	A V	E R.					-									
_				3	3	100.0	)	2	3	79.2		2	3	54.2		3	3	100.0	,	3	3 5	71.7		13	15	85.
	HE	IGHT	(M)	37.	5		1	9.4				5.6			1	4.2			14	1.8						
						F	REPOR	TS	TAND	ARD	DEVI	ATIO	N													
					_					^^ /				22 4		A	n	0.8		) (	O 1	4 4			n	8.6
				9	8	0.0	)	1	0	ZB.0		1 (	0 ;	33.1		0	U	0.0		,	a 1	14.4		1	U	

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## TAILINGS/OVERBURDEN GRASS DRILL N N 1 87.9 5.3 0.3 6.5 0.8 0.8 0.8 0.8 0.4 0.6 5.5 TAILINGS/OVERBURDEN GRASS DRILL N N 2 76.6 20.0 0.8 0.8 4.0 0.0 0.0 0.8 0.0 2.0 1.5 0.5 TAILINGS/OVERBURDEN GRASS DRILL N N 3 80.7 0.8 0.3 11.0 0.0 0.0 0.8 0.0 2.1 7.2 1.7 TAILINGS/OVERBURDEN GRASS DRILL N N N 3 80.7 0.8 0.3 11.0 0.0 0.0 0.8 0.0 0.1 0.3 0.8 0.9 0.9 0.7 TAILINGS/OVERBURDEN GRASS DRILL N N N 4 75.9 21.3 0.8 2.0 0.0 0.0 0.8 0.0 0.0 0.1 0.3 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	SOIL	SEED MIX	SEED METHOD		WATER HARVEST	REPS	BARE GROUND X	ROCK X	LITTER X	VESETATION 7.	TREE %	SHRUB %	AN. GRASS %	PER. GRASS X	ANN. FORB %	PER. FORB %
TAILINGS/OVERBURDEN GRASS DRILL N N 3 80.7 8.8 0.3 11.0 0.0 0.0 0.0 0.0 2.1 7.2 1.7 TAILINGS/OVERBURDEN GRASS DRILL N N N 4 75.9 21.3 0.8 2.0 0.0 0.0 0.8 0.0 0.3 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	TAILINGS/OVERBURDEN	GRASS				_										
TAILINGS/OVERBURDEN GRASS DRILL N N A 75.9 21.3 0.8 2.0 0.0 0.0 0.0 0.0 0.0 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9																
TOTALSFORN						_		-								
320.5 54.6 1.4 23.5 0.0 0.0 0.0 0.0 4.8 10.1 8.6	TAILINGS/OVERBURDEN	6RASS	DRILL	N	N	4	75.9	21.3	8.0	2.0	<b>U.</b> U	U.6	U. <b>U</b>	y.3	V.0	0.7
	TOTAL	S FOR	N	. <b></b>				 54.6	1.4	23.5	0.0	0.0	9.0	4.8	10.1	8.6
TAILINGS/OVERBURDEN GRASS DRILL Y N 1 78.4 16.3 0.8 4.5 0.0 0.0 0.0 0.0 2.1 2.4 0.0 TAILINGS/OVERBURDEN GRASS DRILL Y N 2 79.4 14.5 0.8 5.3 0.0 0.0 0.0 0.0 1.4 0.3 3.6 TAILINGS/OVERBURDEN GRASS DRILL Y N 3 84.9 7.5 0.8 6.8 0.0 0.0 0.0 0.0 0.0 0.6 4.2 2.0 TAILINGS/OVERBURDEN GRASS DRILL Y N 3 84.9 7.5 0.8 6.8 0.0 0.0 0.0 0.0 0.5 0.2 8.3 TAILINGS/OVERBURDEN GRASS DRILL Y N 4 78.9 11.8 0.3 9.0 0.0 0.0 0.0 0.0 0.5 0.2 8.3 TAILINGS/OVERBURDEN GRASS DRILL Y N 4 78.9 11.8 0.3 9.0 0.0 0.0 0.0 0.0 0.0 1.1 13.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	AVERAGE	FOR	N													
### A 1							80.1	13.7	0.4	5.9	0.0	0.0	0.0	1.2	2.5	2.2
TAILINGS/OVERBURDEN GRASS DRILL Y N 2 79.4 14.5 0.8 5.3 0.0 0.0 0.0 1.4 0.3 3.6 TAILINGS/OVERBURDEN GRASS DRILL Y N 3 84.9 7.5 0.8 6.8 0.0 0.0 0.0 0.0 0.6 4.2 2.0 TAILINGS/OVERBURDEN GRASS DRILL Y N 4 78.9 11.8 0.3 9.0 0.0 0.0 0.0 0.0 0.5 0.2 8.3 0.2 1.7 0.0 0.0 0.0 0.0 0.5 0.2 8.3 0.2 1.7 0.0 0.0 0.0 0.0 0.7 1.7 3.1 0.5 6.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.7 1.7 3.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	STANDARD	DEV. N	<b> </b>					7.1	0.3	3.4	0.0	8.0	9.9	0.9	2.7	2.0
TAILINGS/OVERBURDEN GRASS DRILL Y N 2 79.4 14.5 0.8 5.3 0.0 0.0 0.0 1.4 0.3 3.6 TAILINGS/OVERBURDEN GRASS DRILL Y N 3 84.9 7.5 0.8 6.8 0.0 0.0 0.0 0.0 0.6 4.2 2.0 TAILINGS/OVERBURDEN GRASS DRILL Y N 4 78.9 11.8 0.3 9.0 0.0 0.0 0.0 0.0 0.5 0.2 8.3 0.2 1.7 0.0 0.0 0.0 0.0 0.5 0.2 8.3 0.2 1.7 0.0 0.0 0.0 0.0 0.7 1.7 3.1 0.5 6.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.7 1.7 3.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0																
TAILINGS/OVERBURDEN GRASS DRILL Y N 2 79.4 14.5 0.8 5.3 0.0 0.0 0.0 1.4 0.3 3.6 TAILINGS/OVERBURDEN GRASS DRILL Y N 3 84.9 7.5 0.8 6.8 0.0 0.0 0.0 0.0 0.6 4.2 2.0 TAILINGS/OVERBURDEN GRASS DRILL Y N 4 78.9 11.8 0.3 9.0 0.0 0.0 0.0 0.0 0.5 0.2 8.3 0.2 1.7 0.0 0.0 0.0 0.0 0.5 0.2 8.3 0.2 1.7 0.0 0.0 0.0 0.0 0.7 1.7 3.1 0.5 6.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.7 1.7 3.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	TATI TNICC/ALIEDRIBAEN	22493	neti i	Y	N	1	78.4	16.3	0.8	4.5	0.0	0.0	0.8	2.1	2.4	0.0
TAILINGS/OVERBURDEN GRASS DRILL Y N 3 84.9 7.5 0.8 6.8 0.0 0.0 0.0 0.6 4.2 2.0 TAILINGS/OVERBURDEN GRASS DRILL Y N 4 78.9 11.8 0.3 9.0 0.0 0.0 0.0 0.0 0.5 0.2 8.3 0.2 1.7 0.0 0.0 0.0 0.0 0.5 0.2 8.3 0.2 1.7 0.0 0.0 0.0 0.0 0.7 1.7 3.1 0.5 6.1 104.7 4.1 49.1 0.0 0.0 0.0 0.0 9.4 17.2 22.5 80.3 13.1 0.5 6.1 0.0 0.0 0.0 0.0 1.2 2.2 2.8 0.3 0.3 13.1 0.5 6.1 0.0 0.0 0.0 0.0 1.2 2.2 2.8 0.3 0.3 13.1 0.5 6.1 0.0 0.0 0.0 0.0 1.2 2.2 2.8 0.3 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0				-		-										3.6
TAILINGS/OVERBURDEN GRASS DRILL Y N 4 78.9 11.8 0.3 9.0 0.0 0.0 0.0 0.0 0.5 0.2 8.3  T 0 T A L S FOR Y 321.6 50.1 2.7 25.6 0.0 0.0 0.0 4.6 7.1 13.9  AVERAGE FOR Y 80.4 12.5 0.7 6.4 0.0 0.0 0.0 1.1 1.8 3.5  STANDARD DEV. Y 2.6 3.3 0.2 1.7 0.0 0.0 0.0 0.7 1.7 3.1  G R A N D T 0 T A L S 642.1 104.7 4.1 49.1 0.0 0.0 0.0 9.4 17.2 22.5  R E P 0 R T A V E R 80.3 13.1 0.5 6.1 0.0 0.0 0.0 0.0 1.2 2.2 2.8  REPORT STANDARD DEVIATION			DRILL	Ÿ							0.0	0.0	0.0	0.6	4.2	2.0
321.6 50.1 2.7 25.6 0.0 0.0 0.0 4.6 7.1 13.9						4	78 <b>.9</b>	11.8	0.3	9.0	0.0	0.0	0.0	0.5	0.2	8.3
	TOTAL	S FOR	γ ·											<b></b> -	·	. <u></u>
80.4 12.5 0.7 6.4 0.0 0.0 0.0 1.1 1.8 3.5 STANDARD DEV. Y  2.6 3.3 0.2 1.7 0.0 0.0 0.0 0.7 1.7 3.1							321.6	50.1	2.7	25.6	0.0	0.0	0.0	4.6	7.1	13.9
2.6 3.3 0.2 1.7 0.0 0.0 0.0 0.7 1.7 3.1	AVERAGE	FOR	Y ·					12.5	 0.7	6.4	0.0	0.0	0.0	1.1	1.8	3.5
2.6 3.3 0.2 1.7 0.0 0.0 0.0 0.7 1.7 3.1	STANDARD	DEV.	Y													
642.1 104.7 4.1 49.1 0.0 0.0 0.0 9.4 17.2 22.5	_						2.6	3.3		1.7	0.0	0.0	0.0	0.7	1.7	3.1
642.1 104.7 4.1 49.1 0.0 0.0 0.0 9.4 17.2 22.5	<b>J</b>															
80.3 13.1 0.5 6.1 0.0 0.0 0.0 1.2 2.2 2.8	•						642.1	104.7	4.1	49,1			0.0	9.4	17.2	22.5
							80.3	13.1	0.5	6.1	0.0	0.0	0.0	1.2	2.2	2.8
						REPO					0.0	0.0	0.0	0.8	2.3	2.7

SOIL	SEED MIX	SEED METH	FER	HARVE	डा	PS	<b></b>			ا منگس	JW.		A	ANI.	PER.	ANN.	PER.	145 
		AGDA	AGIN	AGINE	AGSH	AGTRI	ELCI	ORMY	MESA	REF	6BASS	TREE	SHRUB	GRASS	GRASS	FORB	FORB	TOTAL
TAILINGS/OVERBUR		DRILL				1		44	*** ***					-	48.6			425
er Sank Francisco	SEEDED UNSEEDED	0.8	1.0	1.5	0.0.	5.0	9.0	17.5	1.5		. 13	0.8	0.8	8.8	15.0	8.5	1.5	16.5
•	TOTAL			٠,		_					* 7+,	0.0	0.0	9.8	15.0	8.8	1.5	24.5
TAILINGS/OVERBUR	den Grass Seeded	DRILL 0.0	4 0.0	8.5		2" 1.0	a.a	3.5	0.0	<b>8.</b> 5	0.0				5.0		0.5	5.5
	UNSEEDED										44-	0.0			0.0	4.5	0.0	4.5
TAILINGS/OVERBUR	TOTAL DEN GRASS	DRILL	N	i N		3						0.0	0.0	8.0	5.8	4.5	0.5	10.8
•	SEEDED	0.5		0.5		-	0.0	9.5	0.5	9.5	2.8				16.0		1.0	17.0
	UNSEEDED											0.0 0.0			0.0 16.0	8.0 8.0	0.0 1.8	8.0 25.0
TAILINGS/OVERBUR	DEN GRASS					4												
	SEEDED Unseeded	1.0	0.0	0.0	0.0	0.0	0.0	2.5	9.0	8.3	0.0	0.0	0.0	0.8	3.5 0.0	10.5	0.5 0.8	4.8 18.5
•	TOTAL											0.0			3.5	10.5	0.5	14.5
	ALSFOR	N																
													4		20 E			40.0
	SEEDED Unseeded	1.5	4.0	2.5	U.U	1.5	V.V	28.0	2.0	1.5	2.0	0.0		0.0	39.5 0.0	31.0	3.5 0.0	43.0 31.0
•	TOTAL											0.0	0.0	0.0	39.5	31.0	3.5	74.0
AVENA	GE FOR	N																
	SEEDED	0.4	1.0	0.6	0.0	0.4	0.0	7.0	0.5	0.4	0.5	0 0	Λ 0.	0.0	9.9	7.8	0.9	10.8 7.8
	UNSEEDED TOTAL											0.0 0.0				7.8	0.9	18.5
● STANDA	RD DEV. 1	<b>4</b> ·			:								<del>-</del>					
	SEEDED	0.4	1.2	0.5	0.0	0.4	0.0	4.2	0.6	0.2	0.9				5.7		0.4	6.0
	UNSEEDED											0.0 0.0				2.1	0.0	2.1 6.5
	TOTAL								- <b></b> -			ט.ט 	<del>-</del>		J./ 	. <b>-</b>		9.J
TAILINGS/OVERBUR	DEN REACC	APILI	,	y N		1												
INICINOS OVERSON	SEEDED	2.0					0.0	19.5	0.0	0.0	0.0				27.5		0.0	
	UNSEEDED TOTAL												0.0		0.0 27.5			
TAILINGS/OVERBUR	DEN GRASS			r N		2						0.0	010	0.0		0.0	0.0	•
•	SEEDED Unseeded	0.5	0.0	0.0	0.0	0.0	0.0	14.0	0.0	0.5	0.0	0.0	0.0	n n	14.5 0.0	5.0	0.5 0.0	
	TOTAL									•		0.0			14.5		0.5	
TAILINGS/OVERBUR		DRILL 0.0		/ N			0.0	7 5	0.5	0.0					11.0		0.5	11.5
	SEEDED Unseeded		1.0	1.3	0.0	0.5	0.0	7.3	0.3	0.0		0.0	0.0	0.0	0.0	8.0		8.0
TATI THEO /OUEDDING	TOTAL	66TII	,	וג י								0.0	0.0	0.0	11.0	8.0	0.5	19.5
TAILINGS/OVERBUR	DEN GRASS SEEDED		0.5			0.0	0.0	6.0	2.5	0.0	0.0				6.5		2.5	9.0
	UNSEEDED											0.0						
	TOTAL											0.0	0.0	0.0	6.5	6.0	2.5	15.0
•												<b></b> -						

SOIL •	SEED MIX	SEED NETH AGDA		T WATER HARVEST AGINE A	13A AST	n erei	DRMY	NESA	MEOF	JUV. Grass	TREE	SHRUB	ann. Grass	PER.	ANN. FORB	PER. Forb	TOTAL
TOTA	L S FOR	Y							- <b></b>								
• AVERAG	SEEDED UNSEEDED TOTAL	2.5 Y	3.0	3.8	).5 3.	R 9.0	<b>7.</b> 1	3.0		0.5				1.1	24.5 24.5	3.5 0.0 3.5	63.8 24.5 87.5
	SEEDED UNSEEDED TOTAL D DEV. Y		0.8	0.8 (	).1 0.:	B 0.0	11.8	0.8	0.1	0.1	0.8		0.0	14.9 0.0 14.9	6.1 6.1	0.9 0.0 0.9	15.8 6.1 21.9
	SEEDED UNSEEDED TOTAL	0.8	0.6	0.8	B.2 1.	0 0.0	5.4	1.0	0.2	0.2	0.0 0.0	0.0		0.0	1.1	1.0 9.0 1.0	7.1 1.1 6.7
•					6 R	AND	T 0 1	ra L s	; <b></b> -								· = = •
•	SEEDED UNSEEDED TOTAL	4.0	7.0		0.5 4. RE						0.0 0.0	0.0 0.0	9.0	0.0	55.5	0.0	106.0 55.5 161.5
•	SEEDED UNSEEDED TOTAL	0.5	0.9	0.7		6 0.0	9.4	0.6	0.3	0.3	0.0 0.0	0.0 0.0	0.0	12.4	6.9		13.3 6.9 20.2
•	SEEDED UNSEEDED TOTAL			0.7	0.2 0.	0.0	5.4	0.9	0.3	0.7		0.0	0.0	7.3 0.0	1.9 1.9	0.7 0.0 0.7	7.0 1.9 6.8

SOIL		FERT REP	!		RFR		A	ANO	ا. افت ست		0		JUSC		!	RO		• !		OTAL		
	HARVES	Ī		-	1	177 :		T	7	A T				%		4 1			A	T	%	
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			ing series			*	E .	L	•		***	•	L	٧	ī. !	E . L	. v		2	L	V	
TAILINGS/OVERBURDEN	BASIN	NO F 1		3	3 10	<b>6.</b> 6	2	3	66.7	1 3	33.3	3	3	100.0	1	3 3	100	.0	12	15	89.8	ŀ
	<b></b>	HEIGHT					30.0		••••	14.8		22.				3.3		••	•-			
TAILINGS/OVERBURDEN	BASIN			3		0.0			100.0					100.8		3 3	180	.0	14	15	93.3	
		HEIGHT	(CM)				12.0			4.5		15.				3.0		••				
TAILINGS/OVERBURDEN	BASIN					0.0			100.0	2 3				100.0		3 3	100	.0	14	15	93.3	ļ
•		HEIGHT	(DH)	41.3			20.7	•		13.5		17.	7		1	7.0						
TAILINGS/OVERBURDEN	BASIN	NO F 4		2	3 6	6.7	3	3	100.0	1 3	33.3	3	3	100.0	ŀ	3 3	100	.0	12	15	80.0	ı
		HE16HT						}		7.0		12.	3			0.3						
TOTAL	S FOR	NO F -						-														,
										6 12				400.0			408	.0	52	60	346.6	,
		HEIGHT	(DH)	156.4			73.0	İ		39.0		67.	3		6	3.6						
AVERAGE	FOR	NO F -						_														
							_	-		2 3							100	.0	13	15	86.7	
777 AL IB A DIE		HEIGHT	(M)	39.1			18.3			9.8		16.	8		1	5.9						
STANDARD	DEV.	NU F								i 0				J.							· <b></b>	
										1 0	16.7	0	_ 6	8.0	!	y u	U	.0	1	Ű	6.6	
		HEIGHT	(un)	/.9	•		/.8	•		4.1		3.	3			<del>9</del> .y						
•						· <b></b> ·		-														
TAILINGS/OVERBURDEN	DACIN	CCDT 1		2	2 10	0 0	2	2	66.7	2 3	11.7		2	100.0		3 3	****	a	12	15	86.7	į
MILINGS/ UVERDURUEN	DHOTH	HEIGHT				0.0			99./					100.0		3 3 6.7	100	• 0	13	13	99.7	
TAILINGS/OVERBURDEN	PACIN			33.7		6 A			66.7					100.0		3., 3	100	O	12	15	86.7	,
MILLINGS CATHODRES	B10111	HEIGHT		35.3					00.7					100.0		3.0	. 100		10	10	9017	
TAILINGS/OVERBURDEN	BASIN			3					100.0			3		100.6		3 3	100	.0	15	15	100.0	ı
		HEIGHT														2.7		••	••	••		
TAILINGS/OVERBURDEN	BASIN			3								3		100.0		-	100	.0	13	15	86.7	
		HEIGHT		33.7												B.O						
TOTAL	S FOR																					
•				12	12 40	0.0	10	12	333.4	8 12	266.7	12	12	400.0	1	2 12	400	.0	54	60	360.1	
		HEIGHT																				
AVERAGE	FOR	FERT -						-														
				3	3 10	0.0	3	3	83.3	2 3	66.7	3	3	100.0		3 3	100	.0	14	15	90.0	
		HEIGHT	(CM)	34.1			16.2			6.0		14.	8		1	5.1						
STANDARD	DEV.	FERT		·						. <b></b> .											·	
•				0	0	0.0	1	0	16.6	1 0	23.6	0	0	0.0	1	3 0	0	.0	1	0	5.8	
		HEIGHT	(CM)	0.7			2.6			2.4		2.	3			6.1						
								_								- <b>-</b>						

#### SURVIVAL AND HEIGHT

WATER FERT REP	i		arfr	!	į		ARN	9	ļ		CEN	)	:		JUSC	;	i		ROM	)	!		TUTA	Ĺ
HARVEST	ļ	A	T	%	•	A	T	X	ļ.	A	T	- <b>X</b>	į	A	T	%	:	A	T	7.	į	A	T	%
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그리 아이를 하는 경우를 잃었다.	. !	1	T	U	•	1	Ţ	U	!	1	1	U	ŧ	1	T	U	į	1	T	U	į	I	T	U
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		•		73,	.8			87.	3	_	_	38	. 3	_		100	, U			180	.0	13	13	00.3
HEIGHT	((24)	36.	6											15.	8			13.	3					
					-REF	PORT	STA	NDARD	DE	VIAT	LION-													
		0	0	11.	.0	0	0	16.	1	1	0	22.	.1	0	0	0.	.0	8	0	8	.0	1	Ð	6.4
HEIGHT	104	5.	٥			5	.9			3.	۵			3.	2			5	5					
	HEIGHT	HEIGHT (CM)	HARVEST A L L I V E HEIGHT (CM) 292.	HARVEST	HARVEST	HARVEST ! A T % !	HARVEST   A T % ! A	HARVEST ! A T % ! A T	HARVEST ! A T % ! A T % ! L O S ! L O S ! L O S ! L O S ! L T U ! I T U ! I T U ! I T U ! I T U ! E L V ! E L	HARVEST ! A T % ! A T % ! ! L O S ! L O S ! ! I T U ! I T U ! ! V A R ! V A R ! ! E L V ! E L V !  MEIGHT (CM) 292.8 137.8	HARVEST ! A T % ! A T % ! A  ! L O S ! L O S ! L  ! I T U ! I T U ! I  ! V A R ! V A R ! V  ! E L V ! E L V ! E  HEIGHT (CM) 292.8 137.8 63  HEIGHT (CM) 36.6 17.2 7  HEIGHT (CM) 36.6 17.2 7	HARVEST	HARVEST ! A T % ! A T % ! A T % ! L D S ! L D	HARVEST	HARVEST ! A T % ! A T	HARVEST	HARVEST	HARVEST   A T X ! A T X ! A T X ! A T X !   L 0 S ! L 0 S ! L 0 S ! L 0 S !   I T U ! I T U ! I T U ! I T U !   V A R ! V A R ! V A R ! V A R ! V A R !   E L V ! E L V ! E L V ! E L V !   E L V ! E L V ! E L V ! E L V !  3 3 95.8 3 3 87.5 2 3 58.3 3 3 100.0   HEIGHT (CM) 36.6   17.2   7.9   15.8	HARVEST ! A T % ! A T	HARVEST	HARVEST	HARVEST	HARVEST	HARVEST

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Mining				Division of Oil, Gas and
Mine Permit No Operator SF TO	umber <u>MO4700</u> Phosphate	Mine N FROM	Date April	1 Phosphate 14, 1984
CONFIDE MULTI	ENTIALBOND PUL DOCUMENT MENT _OTHER_	CLOSURE _ TRACKING SI	LARGE MAPS	✓EXPANDABLE APPROVED NOI
Description			YEA	R-Record Number
_NOI	<u>∨</u> Incoming	_Outgoing	Internal	Superceded
Reveg	etation	Test	Plot R	esults
NOI	Incoming	Outgoing	Internal	Superceded
NOI	Incoming	Outgoing	Internal	Superceded
NOI	Incoming	_Outgoing	Internal	Superceded
	1/2 X 11 MAP PA			_LARGE MAP
CC:				